UNIVERSITY COLLEGE LONDON

ANNUAL REPORT 1987-88

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CONTENTS

Officers of the College 5

Foreword by the Provost 7

The Report for 1987-88 17

Appointment of the New Provost 19

Visits and Official Openings

Inauguration of the University College and Middlesex School of Medicine by HRH The Princess Royal 21

Opening of the 11th Floor Engineering Building by Mrs Angela Rumbold C.B.E., MP 23

The naming of the Medawar Building 24

Visit of the Main Committee of the University Grants Committee (UGC) 24

Visit of the Technology Sub-Committee of the UGC 26

Assembly of Faculties 26

Major Academic Initiatives and Developments

UGC: Recommendation to close the University College and Middlesex School of Dentistry 27

UGC: Support for Rationalisation and Change 28

UGC: Earth Sciences Review 29

UGC: Archaeology Review 30

UGC: Working Party on Philosophy 31

The Next University Grants Committee Research Selectivity Exercise 31

Advisory Board for the Research Councils: A strategy for the Science base 32

Science and Engineering Research Council: Strategic Initiative in Biochemical Engineering 33

British Academy Collaborative Research Award 34

University of London: Academic Initiative Grants 34

College Initiatives

Faculty of Laws: Centre for Communications and Information 34

Establishment of Department of Biology 35

Planning and Development Research Centre 35

Centre for Medical Technology 36

Equal Opportunities 37

Staff Review and Development 37

Staff Training and Development 37

Endowment of Lectureships and Fellowships
Institution of the Stiles Lectureship 38
C.B. Fawcett Fellowship

Review of Areas of College
Administration 39
Finances 40
Sites and Buildings 41
Library 43
Computer Centre 46
UCL initiatives (UCLi) (formerly the Academic Services Unit) 47
External Relations 48
Liaison with Schools 50
Foreign Study Office 51
Careers Advisory Service 53
Association of Friends of UCL 54
Old Students' Association 54

Public Lectures 55

Supplement: Honours, Distinctions and Awards 59
Appointments 63
Retirements 66
Resignations 68

Publications by Members of College Departments:
Faculty of Arts 70
Faculty of Laws 108
Faculty of Science 117
Faculty of Engineering 166
Faculty of Environmental Studies 183
Faculty of Medical Sciences 187
Faculty of Clinical Sciences 220

Appendices
I Number of Students 322
II University First Degree and Diploma Awards 323
III University Higher Degree and Higher Diploma Awards . . 324
IV College Diploma and Certificate Awards 332
V Scholarships, Studentships and Prizes:
College and University Awards 335
VI Benefactions, Donations, Research Grants and Contracts . 342
VII College Accounts 367

OFFICERS OF THE COLLEGE

VISITOR
MASTER OF THE ROLLS

CHAIRMAN OF THE COUNCIL
SIR PETER MATTHEWS

VICE-CHAIRMAN OF THE COUNCIL
SIR JAMES HAMILTON
KCB, MBE

TREASURER
H. M. PRIESTLEY
MA

PROVOST
SIR JAMES LIGHTHILL
DSC, FRAES, FIMA, FRS

VICE-PROVOSTS
PROFESSOR D. E. N. DAVIES
CBE, DSC, FIEE, FIERE, FENG, FRS
(to 31.3.88)

PROFESSOR R. J. AUDLEY
PHD
(from 1.4.88)

PROFESSOR D. V. I. FAIRWEATHER
MB, CHB, MD, FRCOG

PROFESSOR J. E. C. T. WHITE
CBE, MA, PHD

SECRETARY
I. H. BAKER
CBE

FOREWORD BY THE PROVOST

Nine academic years

In this, my ninth and last Foreword to a UCL Annual Report, I look back not just over 1987-88 but over the nine complete academic years 1979-88 of my Provostship. However, there is one subject that has featured in all of my previous eight Forewords which I am deliberately omitting from the ninth. That financial struggle in which the College has so stoutly and tenaciously engaged throughout the 1980s continues to be fought skilfully and even more vigorously at the end of that decade; yet, with the outcome of our latest 'engagement' still uncertain at the time of writing, I prefer in this Foreword to concentrate instead upon already established achievements. Indeed, at the end of those nine years, my main message (a preliminary version of which I gave at the Assembly of Faculties in June 1988) is overwhelmingly one of congratulation to all members of the College (the students, their teachers, the administrative and other supporting staff and the 'lay' governors) for what they have achieved during that period notwithstanding some exceptionally difficult external circumstances.

Students' achievements

And my first congratulatory message recalls that this has been a period during which the excellence of our students' achievements has with the years become even greater. In particular, their academic performance has got still better; for example, out of those taking classified final-year degree examinations the proportion reaching the very special level of excellence represented by either a Second Class Division One or First Class degree rose steadily from 45 per cent in 1980 to 53 per cent in both 1987 and 1988.

And then, of course, different students shine in different ways; some, for example, in the marvellously fruitful use (steadily increasing during the 1980s) of UCL's Bloomsbury Theatre for brilliant student productions of English drama, Greek drama, drama in several modern languages and as many as ten operas that have hardly ever been heard in England before (including works by Spohr, Prokofiev, Chabrier, Massenet, Smetana and Max Bruch alongside two neglected masterpieces each from Verdi and Puccini). In the meantime, yet more groups of students have shone each year in all the field sports pursued at our fine grounds at Shenley and Chislehurst or else in various martial arts (as we call them now) from fencing and rifle

shooting to karate and kung-fu; while others have contributed to creating a rich general cultural life in the College through participation in a wide variety of clubs and societies or a scintillating social life that includes the increasingly successful use of our now beautifully refurbished Cloisters and Refectories for brilliantly organised Union balls.

And in all these contexts I have enjoyed working every year with the extremely able Student Union officers elected by the student body and holding regular meetings with them to help them in all their work for the welfare of students, for the representation of student interests and for giving our students the fullest possible social and cultural opportunities while they are here. And here too I may perhaps be allowed to give a general opinion to the effect that each year the student body seems to elect student officers of exceptional ability on an actually rising scale.

Selection of staff for appointment or promotion

And now, as I shift the focus of my remarks from the students to their teachers, I might perhaps pause halfway to observe that those excellent examination records I referred to can justly be seen, of course, as a credit to the College community as a whole: teachers as well as students. Such results, of good teaching and good learning at the level of excellence which I mentioned, have been achieved in all areas of the College; areas, where, in addition, the teaching staff have been gaining golden opinions also for the outstanding quality of their research work and other original work (which in turn, of course, makes them still better teachers). And these congratulatory remarks apply both to the College's brilliant young staff (including the holders of thirty-six coveted New Blood appointments made in the middle years of the period I am reviewing) and to the even more experienced and academically distinguished body of the College's older staff. But in this Foreword, after nine years at UCL, I want to congratulate with especial warmth our most senior staff (the Senior Lecturers, the Readers and above all the Professors) for the leadership they give in teaching and research and for the massive contribution they make to the selection of brilliant young people to join our ranks.

Actually, I as Provost am not directly concerned in this latter process; but I am deeply involved in every appointment to a Senior Lectureship and in every nomination for appointment to a Readership or Professorship and I take part as Chairman of the relevant sub-committee of Academic Board in each and every case during the meticulous processes of selection of the names to be proposed to College Council in the case of Senior Lectureships

or to the University in the case of Readerships or Professorships. Nothing is more important than getting those selections right and I am convinced that the College's academic health today is very specially the result of the work of those sub-committees, which I have chaired with great pride, because the persons appointed have provided a very special level of academic leadership for all areas of the College.

Now in the rest of my Foreword, and simply as a modest sample of that work during the 1980s, I am going to refer by name to every one of the 1980s vintage of new professors (limiting myself to them just for reasons of space shortage); professors in post on 1 October 1988, that is, who have been appointed by the University on the basis of the nominations to which I have referred during my nine years as Provost. Every one of these individuals gives priceless professorial leadership, while some of them have in addition been recommended (after widespread consultation) to College Council for appointment as Heads of Department — in other words, as persons responsible for the vital combined task of academic administration and financial management against the background (in each case) of an invaluable combination of professorial distinction and a very wide range of other human qualities. And I shall congratulate each Faculty successively on the quality of the new professors it has acquired during the 1980s, distinguishing between professors appointed from outside UCL and those appointed from amongst the existing staff of the College.

New professors in the Arts

In the Faculty of Arts, a dozen appointments to Chairs from outside the College have comprehended the appointment of dynamic and creative new Heads of social science departments (Ron Cooke in Geography, Bruce Kapferer in Anthropology and, successively, David Pearce and Richard Blundell in Economics) as well as of the geographical anthropologist Sandra Wallman in an endowed Chair of Urban Change; while our work in Ancient World Studies benefited from the distinguished appointments of Nicolas Coldstream and Patricia Easterling to head Classical Archaeology and Greek respectively as well as of Herwig Maehler and Michael Crawford to Chairs of Papyrology and Ancient History; and also, needless to say, from our unification with the Institute of Archaeology. And famous Chairs of English and of History have been filled by Sidney Greenbaum, now elected as the Faculty's new Dean, and by Conrad Russell who also assumed with distinction his seat in the House of Lords; while the vital succession to the Directorship of the Slade School was excitingly settled by the recent appointment of Bernard Cohen.

But I must not leave out the outstanding previous Director of the Slade, Patrick George, as the first of a sequence of nine gifted professors appointed from the existing staff of the College and taking over as Head of an arts department; a sequence of particularly successful appointments that included Andrew Watson in Library, Archive and Information Studies, Neil Smith in Phonetics and Linguistics, Michael Barnes in Scandinavian Studies, Annette Lavers in French, Laura Lepschy in Italian, Wendy Davies in one of the College's biggest Departments, History, Ted Honderich in Philosophy as the new Grote Professor of the Philosophy of Mind and Logic and Geoffrey Martin in Egyptology as the new Edwards Professor. And, complementing those nine, I draw attention to a further ten new conferments of the professorial title on admirable individuals from inside UCL who have not assumed headships of department (as yet!), including four geographers (Gerald Manners, Richard Munton and Hugh Clout, with Claudio Vita-Finzi who has since transferred to Geological Sciences), together with the economist Deepak Lal, the English novelist and literary critic Dan Jacobson, the medieval English scholar John Dodgson who is our current Dean of Students, the historians Jonathan Israel and Leslie Bethell and, 'last but not least', our new Phonetics professor, John Wells.

All those I have mentioned are acting in combination to make the UCL Faculty of Arts one of the most important in the country. A vital role in this endeavour, furthermore, has been played by all the former Deans of Arts (John White, Douglas Johnson, Martin Swales and Malcolm Willcock — among whom Professor White was later a Vice-Provost and Professor Willcock has assumed that role with effect from the 1988-89 session); whose wholehearted collaboration I have been most fortunate to enjoy.

New professors in Laws and Environmental Studies

And there is a similar story to be told in the Faculty of Laws, where I have particularly enjoyed working with Jeffrey Jowell (already a professor when I came, but one whose appointment as the new Head of Department I did successfully recommmend to Council) to build up that Faculty's strength still further. This has depended upon the outstanding selections from outside UCL of Bob Hepple, William Twining and Maurice Mendelson for Chairs of English Law, Jurisprudence and International Law respectively; together with important professorial appointments from existing UCL staff of Michael Freeman in Family Law, Valentine Korah in Competition Law, Ian Dennis in Criminal Law and Malcolm Grant in Planning Law — not to mention those exciting new bids for endowment funds which have not as yet secured,

but (I feel certain) soon will, another leap forward in the strength of the Faculty's professoriate.

In another of our smaller Faculties, that of Environmental Studies represented by the Bartlett School of Architecture and Planning with its extensive intake into important professions, I am particularly grateful to the sub-committees I had the honour to chair which gradually but successfully reached consensus in defining the continuing basis of that distinguished future we all predict for the Bartlett, led initially by three newly appointed professors. These are Nigel Harris in Development Planning on a well deserved internal promotion, and two important external appointments: Peter Ahrends as an exceptionally distinguished practitioner appointed to our famous Bartlett Chair of Architecture, and, most recently, Patrick O'Sullivan as the new Haden-Pilkington Professor of Environmental Design and Engineering who takes over as the Bartlett School's vigorous and highly experienced new Head. These three Professors, working with our well established Director of Planning Studies Michael Collins and other able non-professorial staff (including the new Dean from 1988-89, Cho Padamsee), are splendidly placed to initiate a most exciting new phase in the Bartlett's long and distinguished history.

New professors in Engineering and the physical and mathematical sciences

And the Faculty of Engineering has gone from strength to strength as the whole vigorous Department of Chemical and Biochemical Engineering distinguished itself — particularly by pioneering biochemical engineering under two internally promoted professors, Malcolm Lilly and Peter Dunnill; while Larry Gibilaro was similarly promoted in chemical engineering; as Civil Engineering benefited from the leadership of Jim Croll in structural engineering and Robin Arthur in foundation engineering as internal appointees to professorships; and as the marine side of Mechanical Engineering was strengthened by internal promotions for Rodney Eatock Taylor, who now takes over as the Faculty's new Dean, and Bill Dover who now has been translated into the newly established Shell Chair of Mechanical Engineering. In the meantime Vickers Shipbuilding and Engineering Ltd endowed the VSEL Chair of Submarine Design and Engineering to which we were fortunate enough to appoint Roy Burcher, the Director of the Admiralty Research Establishment at Haslar, while British Telecom endowed the BT Chair of Optoelectronics of which the distinguished holder John Midwinter has now taken over as Head of one of the College's most successful Departments, that of Electronic and Electrical Engineering (which benefited

also from Brian Davies' and Chris Pitt's internal promotions to professorships). And, lastly, for the established Chair of Photogrammetry we went halfway round the globe to attract from Queensland Ian Harley who has just finished his spell as a highly effective Dean of this dynamic Faculty.

And then, speaking myself as a scientist, I see the Science Faculty flourishing as an internally promoted Chemistry professor of great distinction, Robin Clark, takes over as its new Dean, while Chemistry benefited immensely too from the decision by Smith Kline & French to endow the SKF Chair of Medicinal Chemistry so that we could appoint to it Robin Ganellin, the famous cimetidine synthetist; as well as from the internal appointment of the chemical spectroscopist John Callomon. In my own subject of Mathematics the two named Chairs (of Pure Mathematics and of Applied Mathematics) were filled by Paul Cohn and Frank Smith who joined us from other London Colleges, while both Hugh Michael and Susan Brown were internally promoted. I cannot refrain from expressing my gratitude also to Edwin Power who, although a professor since 1967, has more recently assumed with very notable success the Headship of this complex Department. Similarly I am grateful to our long established Perren Professor of Astronomy, Bob Wilson, for taking on a quite astronomical level of responsibility as Head of Physics and Astronomy, a Department which has been enabled to maintain its professorial strength through the internal promotions of Michael Duff in Applied Physics, of Ceiri Griffith, Colin Wilkin, Fred Bullock and Donald Davis in Particle Physics (at increasing energy levels) and of Len Culhane who now directs our important Mullard Space Science Laboratory. Thus, the physical and mathematical sciences also have greatly benefited from the new professorial appointments of the 1980s, to which I should add as important external appointments to vacant Chairs those of John Campbell and Phil Treleaven in different areas of Computer Science (balancing the well deserved internal promotion of Steve Wilbur in yet a third area) as well as those of two outstanding academic leaders and managers in the shape of the eminent statistician Phil Dawid who now heads our Department of Statistical Science and of the admirably energetic and able Head of our now greatly expanded Department of Geological Sciences, Michael Audley-Charles.

Gifted administrators and eminent 'lay' members of Council

And now perhaps I might, in deference to the comfort of my readers, insert a short interval in that Homeric catalogue through which I have been seeking to establish the epic character of the sequence of new professorial

appointments made at UCL during the 1980s, and only refer to the remaining names (all biomedical) at the end of this Foreword. In between, having congratulated our students and also many of their teachers, I should like to pay my tributes to the indefatigable work of the College's administrative staff under the imperturbable generalship of our Secretary, Ian Baker, and comprising four Divisions. One of them, dealing with the maintenance and development of the College's estate, came throughout 1979-88 under the brilliant professional guidance of our Bursar Edward Williamson at whose retirement party last June I gratefully described the remarkable achievements of that Division during the 1980s in all aspects of building development, including most recently the physical unification of most of the Departments within the new University College and Middlesex School of Medicine. Another area where exceptionally able, innovative and devoted professional guidance has been given is represented by our Finance Secretary and Accountant David Bowles, who has continued (along with all his fine staff) to act imaginatively to set the economic framework within which a College as active as I have described in all areas of its work can be kept on a sound financial footing; through measures that include an effective incentive system for promoting new earnings on a massive scale, along with major cost-cutting selectively applied with the aim of achieving financial balance while maintaining academic effectiveness.

And then Jeremy Arterton our Registrar and Alan Huggins our Deputy Secretary are responsible for all the academic and non-academic aspects of the general administration of the College and have done an immense amount during the 1980s to integrate UCL with its joining partners, to promote academic developments, to increase earnings through the recruitment of high-fee students and to put the College's general services on a sound financial footing, as well as keeping us on the right side of the law in a variety of difficult areas affected by recent legislation of various kinds. And the two-site development of the College library, with Arts and Laws in the Wilkins Building and the Bloomsbury Science Library in the DMS Watson Building, has been masterminded by our Librarian Fred Friend, while Paul Samet, our able Computer Centre Director throughout 1979-88, has helped to launch a great new scientific computing development for Bloomsbury in the wider sense.

Yet for all of us concerned with the administration of UCL the support and guidance generously given by our College Council and above all by its 'lay' members (seventeen in all, of whom fifteen including the three distinguished officers — the Chairman, Sir Peter Matthews, the Vice-Chairman, Sir James Hamilton and the Treasurer, Mr Hugh Priestley — were

appointed during the years 1979 to 1988) are of vital importance. The Council, advised on financial matters by Finance Committee under the Treasurer's Chairmanship and on academic matters by Academic Board, has most wisely exercised throughout the 1980s its weighty responsibilities as UCL's Governing Body.

New biomedical professors

But I have now come to the point where I should like to concentrate on biomedical matters and, first and foremost, to express my deep satisfaction at the establishment within this College of the University College and Middlesex School of Medicine or UCMSM for short. This development, strongly supported by the College Council, which itself was further enriched thereby, became law under the University College London Act (1988). I offer my especial gratitude to Denys Fairweather as Vice-Provost of UCMSM, to Tony Mathias as Dean of Medical Sciences (and the College's longest serving Dean) and to Willie Slack as Dean of Clinical Sciences (and former Dean of The Middlesex Hospital Medical School) for their devoted work directed at making this possible.

Using once again a bird's-eye view of those professors in post on 1 October 1988 who have been appointed during the 1980s as an outline guide to developments in the biomedical field, I begin with the energetic clinical epidemiologist Michael Marmot who came to us from elsewhere in London to unify our two former Schools' activities in Community Medicine; while very analogously John Pattison came to head an important united Department of Medical Microbiology, along with Rachel Rosser to head an exciting united Department of Psychiatry, and similarly Malcolm Hodkinson for Geriatric Medicine; while Peter Isaacson came to us from a bit further afield and has since become Head of Histopathology and Director of Bloomsbury's big Histopathology service. Other united Departments headed by excellent newly appointed professors, this time internally promoted, include Oncology where Robert Souhami as Head holds the Chair endowed in memory of the late Dame Kathleen Ferrier, along with Medical Physics under John Clifton, Nuclear Medicine under Peter Ell and Experimental Pathology under Bastien Gomperts. In the meantime noted clinical scientists promoted internally to important professorships not involving Headship of a Department include Peter Beverley in Oncology, André McLean in Toxicology, Pat Riley in Biochemical Pathology, David Linch in Haematology and Tony Segal who holds the Charles Dent Chair of Medicine.

Within the preclinical disciplines, we welcomed an outstanding external appointment of David Brown to a Chair of Pharmacology and Headship of the united Department while the highly esteemed David Colquhoun, the second (in alphabetical order) of our 'two Davids', was appointed to the other vacant Chair. Internally promoted professors of exceptional ability, Roger Woledge and Peter Butterworth, have taken over the Headships of our crucially important Departments of Physiology and Biochemistry respectively, while Anatomy and Developmental Biology seem to have flourished to such an extent in a regime headed by our long established Professor Geoffrey Burnstock (but enriched too by the advent of The Middlesex's long established Professor Lewis Wolpert) that during the 1980s the exacting standards for promotion to professorship were reached in that Department by no less than *ten* persons: Ruth Bellairs, Alan Boyde, David Gingell, Mitch Glickstein, Bob Lieberman, John O'Keefe, John Pegington, Gerta Vrbová, Anne Warner and Semir Zeki (evidently, I use alphabetical order once again!).

And these basic medical sciences in UCMSM work in a close co-operation with certain parts of our Faculty of Science where two fine geneticists, Ursula Mittwoch and Malkiat Deol, along with Robin Rowbury as an able microbiologist and Michael Evans as an innovative plant biophysicist, have been internally promoted to professorships, while the Quain Chair of Botany was admirably filled from outside the College by George Stewart, now Joint Head of the Biology Department; and the Department of Health itself endowed a Chair in Clinical Operational Research and Information Technology in our Department of Statistical Science to which we were delighted to be able to appoint Ray Jackson. Finally, two important Chairs in Psychology were filled, also excellently, by Michael Morgan in Experimental Psychology and by Joseph Sandler as the Freud Memorial Professor of Psychoanalysis, while I feel a very special debt of gratitude to Bob Audley, not only as an outstanding Head of this distinguished Department, but also for having admirably filled successive roles as Dean of Science and as Vice-Provost.

Envoi

Readers of this Foreword, in which I have offered my last review of the College's work, prolonged unusually to cover a period of nine years, will have gathered that I attach particular value to certain measures aimed at maintaining an academically strong and well balanced College: through rationalisation policies judiciously applied with the consent of those affected,

through building adaptation policies appropriate to the College's developing needs, through policies of widespread consultation leading to framing of vitally important recommendations to College Council on Headships of Departments, and (perhaps above all) through the work of those sub-committees of Academic Board that are concerned with making nominations for appointment to professorships. I hope that the 1980s will be judged above all by the quality of those professorial appointments I have mentioned here (over one hundred in all); at the same time I hope that, amongst a cluster of various imaginative rationalisations, the creation of our powerful UCM School of Medicine, achieved in parallel with that reinforcement of Arts at UCL that has included unification with the Institute of Archaeology, and with vigorous new measures that have strengthened Laws, Environmental Studies, Engineering and Science, will be seen in retrospect as having brought UCL's excellence and effectiveness throughout the wide range of fields covered by its seven Faculties to a still more impressive state, even, than in all the previous 160 years of the College's existence.

SIR JAMES LIGHTHILL
Provost

THE REPORT FOR 1987-88

UCL

APPOINTMENT OF THE NEW PROVOST

At the beginning of the 1987-88 session, the quest began for a new Provost to succeed Sir James Lighthill FRS. A Joint Selection Committee of Council and Academic Board was set up under the chairmanship of Sir Peter Matthews, Chairman of the College Council.

Following wide consultations both inside and outside the College, the unanimous decision of the Selection Committee was to appoint as the new Provost Dr Derek Roberts CBE, FRS, Joint Deputy Managing Director and Technical Director of GEC, and this decision was made public on 14 June 1988. The Selection Committee was convinced that in appointing Dr Roberts, the College had found a man whose experience, leadership, scholarship and personal warmth coupled with a great feeling for students would make him a distinguished Provost of the College. Dr Roberts will become Provost on 1 April 1989.

(The Joint Selection Committee comprised: Sir Peter Matthews, Sir James Hamilton, Mr H. M. Priestley, Mr S. P. Chalfen, Dr Caryle A. Steen, Mr F. C. Gee, Mr P. Laister, Mr D. B. Money-Coutts, Professor J. E. C. T. White, Professor A. P. Mathias, Professor D. E. N. Davies, Professor M. W. Swales, Professor R. U. Cooke, Professor R. J. Audley, Dr J. A. North, Professor J. L. Jowell, Dr J. C. Foreman, Professor R. Wilson, Mr W. W. Slack, Dr F. D. Thompson, Professor T. C. Griffith, Professor J. McN. Dodgson. Mr I. H. Baker was the Secretary of the Selection Committee.)

Derek Roberts, who was born in 1932, is a former pupil of Manchester Central High School and a graduate of the University of Manchester.

As group leader for semi-conductor research with the Plessey Company in the 1960s, he expanded a small team of half a dozen graduates and a few technicians into a one hundred and fifty strong group carrying out research in a broad range of topics within the field. He then became Director of the Allen Clark Research Centre with a staff of four hundred, including some one hundred and seventy-five graduate scientists and engineers in the disciplines of physics, chemistry, metallurgy, mathematics and electronic engineering; in 1967 he was appointed Managing Director of Plessey's entire Microsystems Division.

From Plessey Dr Roberts moved to the General Electric Company in 1979 as Director of Research. In this post, he established GEC Research Ltd, with a staff of some two thousand and an annual budget of £40m (which has since risen to £60m). Appointed to the Board as Technical Director in 1984, he was promoted to the post of Joint Deputy Managing Director in 1985, in which capacity he has had wide experience as a research scientist in the field of electronics and as a creator and director of major research centres. He has not only been deeply involved in all aspects of the Company's worldwide activities, including direct responsibility for the running of four major businesses; he has also been a moving spirit in GEC's new emphasis on continuing education and training.

Dr Roberts has made major contributions to a wide range of distinguished bodies: as a Visiting Professor of Physics at the University of Lancaster; as President of the Physics and Mathematics and Engineering Sections of the British Association for the Advancement of Science; as a member of the Electronics Research Council, of the Advisory Council for Applied Research and Development, and of the Science and Engineering Research Council. As well as serving on the Advisory Board for the Research Councils and the BBC's Science Consultative Committee, he is also currently a member of the Academic Consultative Committee of the Open University.

Married with two children, Derek Roberts lives in Buckinghamshire. He was elected a Fellow of the Royal Society in 1980 and was awarded the CBE in 1983. In March 1988 the Senate of the University of London resolved that 'on the occasion of Foundation Day 1988 (13 October) the Degree of Doctor of Science in Engineering should be conferred *honoris causa* on Mr Derek Roberts'.

VISITS AND OFFICIAL OPENINGS

INAUGURATION OF THE UNIVERSITY COLLEGE AND MIDDLESEX SCHOOL OF MEDICINE BY HER ROYAL HIGHNESS THE PRINCESS ROYAL — MONDAY 2 NOVEMBER 1987

The University College and Middlesex School of Medicine (UCMSM) was honoured by the visit on Monday 2 November 1987 of Her Royal Highness The Princess Royal, Chancellor of the University of London, to carry out the inauguration of the new School of Medicine. Her Royal Highness arrived at 5 pm at the Windeyer Building and was met there by The Right Honourable The Lord Flowers, Vice-Chancellor of the University of London, Sir Peter Matthews, Chairman of the University College London Council, and Mr D. B. Money-Coutts, Chairman of The Middlesex Hospital Medical School Council. The Chancellor was introduced in the Entrance Hall to Sir James Lighthill, Provost of UCL, and Mr I. H. Baker, Secretary of the College, and was received into the Windeyer Building by Professor D. V. I. Fairweather, Vice-Provost (Medical) and Head of the UCM School of Medicine. Her Royal Highness was introduced also to Mr W. W. Slack, Dean of the Faculty of Clinical Sciences, Professor A. P. Mathias, Dean of the Faculty of Medical Sciences, and Dr Diana F. Sanders, Secretary of the UCM School of Medicine.

The Academic Procession and the Chancellor's Procession moved into the Edward Lewis Theatre where the Inauguration of the UCM School of Medicine was carried out by The Chancellor. The ceremony was attended by colleagues from all parts of the new School of Medicine and the College, and by representatives of the University of London. The String Orchestra of the Coldstream Guards played for the occasion. The Provost made a speech of welcome to The Chancellor and spoke of the distinction of the five institutions which together formed the new UCM School of Medicine. He stressed both the national and international importance of the new School and laid emphasis too on the contribution of all those involved in the bringing together of The Middlesex Hospital Medical School, the Institutes of Orthopaedics, Laryngology and Otology, and Urology and University College London.

The Chancellor in her speech drew attention in particular to the distinguished histories of both the University College and Middlesex Schools of Medicine and expressed her delight at being able to inaugurate the new

On arrival, Her Royal Highness The Princess Royal with (left to right) Professor A. P. Mathias, Mr W. W. Slack, Professor D. V. I. Fairweather, Sir Peter Matthews, Sir James Lighthill, Mr D. B. Money-Coutts and Mr I. H. Baker.

Mr W. W. Slack, Dean of the Faculty of Clinical Sciences, together with the Provost, presents the Chancellor with a print of the Middlesex Hospital at the conclusion of the visit.

School. At the conclusion of her speech, The Chancellor was invited by the Provost to unveil a plaque which recorded the formal Inauguration of the School. The Procession then withdrew from the platform and moved out of the Edward Lewis Theatre.

Following the Inauguration Ceremony, The Chancellor was invited to visit the Department of Chemical Pathology on the second floor of the Windeyer Building. Escorted by Professor K. R. Rees, the Head of the Department, Her Royal Highness observed research work being conducted by the Department and met Dr A. L. Miller, Director of NHS Services, and members of staff of the Department. The Chancellor then left the Windeyer Building and proceeded to the main buildings of University College London in Gower Street. On arrival there she was met by Sir Peter Matthews and Mr D. B. Money-Coutts, who escorted Her Royal Highness to a Reception in the Upper Hall, where she met groups of staff and students of the UCM School of Medicine, College Officers of UCL and others who had helped in the formation of the new School. Included among these guests were Sir Douglas Ranger, who was Dean of The Middlesex Hospital Medical School until 1983, and Miss Marilyn Gallyer, the Administrative Secretary of the UCL Faculty of Clinical Sciences until 1985.

The Reception, attended by six hundred guests in all, provided an excellent opportunity for many people to come together to mark a happy start to the new School's existence. At the conclusion of The Chancellor's attendance at the Reception, Her Royal Highness was presented with a bouquet by Miss Latha Narasimhan, Treasurer of The Middlesex Hospital Medical School Students' Union. The Chancellor was then invited to sign the UCL Visitors Book and a framed print of the Middlesex Hospital was presented to her by the Provost and the Dean of the Faculty of Clinical Sciences. Her Royal Highness then said farewell to the senior members of the College and the School of Medicine and departed at 7 pm. Following her visit, The Chancellor wrote to the Provost saying how much she had enjoyed inaugurating the new School.

OPENING OF THE 11th FLOOR ENGINEERING BUILDING BY MRS ANGELA RUMBOLD, CBE, MP — 22 SEPTEMBER 1987

On 22 September 1987, Mrs Angela Rumbold CBE, MP, Minister of State, Department of Education and Science, opened the new 11th floor of the Engineering Building as an addition to the Department of Electronic and Electrical Engineering. This extension had been made possible through the

generosity of the General Electric Company (GEC), which was represented at the ceremony by Dr Derek Roberts CBE, FRS, the Joint Deputy Managing Director and Technical Director of the Company.

The Minister of State for Education and Science and Dr Roberts were welcomed to the College by the Provost, and Professor D. E. N. Davies CBE, FRS and attention was drawn in the speeches to the close co-operation between GEC and the Department, which reflected the increasing ties between industry and the universities. At the conclusion of the ceremony a reception was held, which representatives of all parts of the College attended.

THE NAMING OF THE MEDAWAR BUILDING — 25 SEPTEMBER 1987

A ceremony was held in the Department of Zoology and Cell Biology on 25 September 1987 to rename the Zoology Building as the Medawar Building. Sir Peter Medawar was not well enough to attend but in his absence the ceremony was movingly performed by Lady Medawar, after the Provost and Professor N. A. Mitchison, FRS, the Head of the Department, had paid tribute to Sir Peter's achievements for science as a whole and his contribution to the College in particular. Lady Medawar unveiled a plaque commemorating the ceremony, after which a small reception was held. Those present included the family of Sir Peter and Lady Medawar, colleagues from within the College and elsewhere, and other friends.

Sadly, Sir Peter Medawar died shortly after this ceremony. He was held in great esteem by all his colleagues at University College London and we are grateful that it was possible for the naming of the Medawar Building to be carried out during his lifetime.

VISIT OF THE MAIN COMMITTEE OF THE UNIVERSITY GRANTS COMMITTEE

The main Committee of the University Grants Committee made a visitation to the College on 25 March 1988, the first since 1975. It was preceded by a dinner for the Committee with members of the College Council, Deans, Officers of the College and the University, and UCL Union Sabbatical Officers. The programme for the visit included meetings with senior College Officers and members of Council, with student representatives, with Deans, Heads of Departments and professorial staff, with non-professorial members of Academic Board and with representatives of the non-academic staff.

The visitation afforded the College an important opportunity to give the UGC an insight into UCL's achievements and some of the problems it faces and a number of specific issues were raised with the Committee.

The continuing academic strength of the College was emphasised despite its aggravated financial difficulties; in particular, it was pointed out that the provisional Court grant for 1988-89 and 1989-90 would not allow the appointment of any new young academic staff. The UGC was urged to provide earmarked funding to allow for a modest number of new appointments. However, the Committee advised the College that no new money was available for 'new blood' appointments; such funds as were available would be used totally for restructuring and change.

The UGC was reminded of the capital needs of The University College and Middlesex School of Medicine in respect of resiting plans and the upgrading of animal house facilities to meet Home Office regulations.

The report of the UGC Dental Review Working Party was discussed and the College outlined its conditions for acceptance of the proposal to close the University College and Middlesex School of Dentistry. The need to retain the fifty pre-clinical full-time equivalent students was strongly urged.

The inadequacy of the Students' Union accommodation and the case for expansion on a site north of the Central Collegiate Building were described in detail and a bid for funds from the UGC matching those to be raised from alumni and other benefactors was presented.

Other issues raised included the effects of College costs on its services and facilities, the Education Reform Bill, the administrative consequences of mergers and of increased external income from grants and contracts, the development of the Bloomsbury Computing Consortium, and the problems of recruitment and retention of staff in London.

In its review at the end of the visit and in its written report the Committee welcomed the co-operation taking place with Birkbeck College and wished to see this extended into more non-laboratory subjects. The College was congratulated on its success in attracting external contract income and was encouraged to insist upon a higher level of overheads. It was suggested that the College give further attention to appraisal of teaching standards and measures are in progress to implement this. A second exercise in the selective funding of research was imminent and increased selectivity might be expected to benefit the College. The Committee was impressed by the quality of the administrative staff and their work, despite problems of recruitment and greater responsibilities being delegated from Senate House and resulting in an increased workload for the College administration.

VISIT OF THE TECHNOLOGY SUB-COMMITTEE OF THE UNIVERSITY GRANTS COMMITTEE

The Departments of the Faculty of Engineering received the University Grants Committee Technology Sub-Committee on 19 February 1988. The Sub-Committee met the Provost, Dean and Vice-Dean of the Faculty, Heads of the Engineering Departments and Senior Officers of the College for the initial presentation of the work of the Faculty, and this was followed by sessions in which professorial staff, student representatives and non-professorial staff discussed topics of particular relevance to them. The Sub-Committee also divided into small groups to visit individual Departments. At the end of the programme the work of the Faculty was highly commended by the Sub-Committee.

ASSEMBLY OF FACULTIES

A large gathering of distinguished guests, members of the staff of the College, students and their parents and friends was present in Friends House for the Assembly of Faculties on Wednesday 22 June 1988. The Vice-Chairman of Council, Sir James Hamilton, welcomed the guests and introduced the proceedings before the Provost reviewed the College's activities during the past year. Sir Donald Acheson, Chief Medical Officer, Department of Health and Social Security, delivered the address. Mr W. W. Slack, Dean of the Faculty of Clinical Sciences, presented a vote of thanks to Sir Donald.

At the end of the formal proceedings the assembled company moved across to the College for the traditional tea of strawberries and cream and other refreshments. In the Cloisters and Octagon guests were able to view exhibitions mounted by many and various Institutes and Departments of College, including: Orthopaedics, Laryngology and Otology, Urology, Medical Physics, Surgery, Obstetrics and Gynaecology, Nuclear Medicine, Clinical Haematology and Primary Health Care, Archaeology, German, Electronic and Electrical Engineering, and Computer Science, the Academic Services Unit, Careers Services, Catering Department, Photographic/ Illustration Centre, External Relations, Audio-Visual Centre, and the UCL Students' Union. The Slade School of Fine Art had mounted an exhibition of postgraduate students' work; the Strang Print Room was open to visitors; and the Library held an exhibition in the Flaxman Gallery. Later in the afternoon, the UCL Chamber Music Club performed a concert in the Haldane Room, including works by Handel, Haydn, Chopin, Bartok and Purcell.

MAJOR ACADEMIC INITIATIVES AND DEVELOPMENTS

UNIVERSITY GRANTS COMMITTEE: RECOMMENDATION TO CLOSE THE UNIVERSITY COLLEGE AND MIDDLESEX SCHOOL OF ~~MEDICINE~~ DENTISTRY

In December 1986 the UGC established a Working Party to undertake a review of the existing provision of dental education and to advise on the need for rationalisation within this area at undergraduate and postgraduate levels and in respect of continuing dental education. The Working Party's objective was to achieve such a reorganisation of dental teaching as would cause minimum damage to the dental schools overall and protect the supply of dentists and dental service to regions where provision of these was already inadequate.

The Working Party operated against a background of continuing and serious reduction in the resourcing of dental schools: in 1984 the Government had implemented a reduction of ten per cent in the entry to dental schools by a pro rata cut imposed on each university; in July 1987 the Government and the Profession agreed a further reduction in intake of ten per cent from October 1989 to be achieved by closure of dental schools. The UGC Working Party visited each dental school and considered written evidence from a variety of sources. Its Report, published in February 1988, included the recommendation that UGC funding in respect of the Dundee and UCM Dental Schools should be withdrawn entirely.

The UCM School of Dentistry had been assessed as a 'Category B' institution in the UGC Report yet six Schools which had received the inferior 'Category C' rating were to be preserved. Evidently, the decision to recommend closure of the UCM School of Dentistry was taken not on academic grounds but instead, the College believes, in the light of financial and demographic factors. The College and University of London accepted reluctantly the UGC recommendation to close the Dental School, an acceptance which acknowledged the force of current financial imperatives and which served the national interest to strengthen dental education by concentration. This acceptance was, however, subject to certain conditions designed to protect the interests of all Dental School staff and of UCL pre-clinical Departments.

Following a prolonged period of debate, the UGC eventually confirmed the closure of the UCM School of Dentistry but set up a further Working

Party to decide which of the Scottish dental schools should close. Regarding the two other recommendations of its first Working Party Report, the Committee agreed the introduction of a five-year dentistry course from October 1990 but a decision on the introduction of mandatory vocational training was deferred to the mid-1990s because of the practical difficulties of recruiting adequate trainers in dental practice.

In respect of the conditions of closure sought by the College and the University to safeguard the interests of Dental School staff and UCL pre-clinical Departments, an undertaking was given by the UGC that the science-based student load in UCL's basic biomedical science Departments would be increased by fifty to compensate for the loss of fifty pre-clinical full-time equivalent (FTE) funded student numbers resulting from closure of the Dental School. The UGC also agreed that the best three groups of UCL clinical dentistry staff would transfer to the Institute of Dental Surgery after closure of the Dental School and that generous Premature Retirement Compensation terms or severance payments would be made to those staff not thus transferring.

With the agreement of the UGC, the phased withdrawal of clinical funds and the eventual closure of the UCM School of Dentistry are to be carried out as sensitively as possible and over a reasonably extended period of time. It is intended that the final clinical year will qualify in December 1991 and that the School will close completely in July 1992.

UNIVERSITY GRANTS COMMITTEE: SUPPORT FOR RATIONALISATION AND CHANGE

In September 1987 the UGC promulgated details of its scheme to support various aspects of rationalisation and change, including early retirement, voluntary severance, retraining, relocation of equipment and library holdings and new appointments. The College's Combined Academic and Financial Plans projected a target of thirty-six early retirements under the Premature Retirement Compensation Scheme over the period 1986-90; in the event, it was necessary to increase this target because the number of casual vacancies declined substantially, and over one hundred early retirements were agreed by September 1988.

The additional £55m per annum set aside by the Secretary of State for Education and Science was wholly committed to supporting the capital costs of early retirements and voluntary severance and no funds were available for new appointments.

UNIVERSITY GRANTS COMMITTEE: EARTH SCIENCES REVIEW

In March 1986 the UGC announced its intention to review Earth Sciences, the first of a number of UGC subject reviews. The first stage of the review was an examination of the general principles which should govern the future organisation of teaching and research in Earth Sciences. The resultant report 'Strengthening University Earth Sciences', was issued as a consultative document and proposed a radical and innovative approach: that the UGC should support Earth Sciences at three different levels.

The College supported the document's general objective of strengthening Earth Sciences at British universities through concentration of resources in strong departments. The UCL response to the document drew attention to the fact that this process had already occurred within the University of London, with the concentration of Geology on three sites (Bloomsbury, Egham and South Kensington). The concentration of Geological Sciences in Bloomsbury had involved a major move of Queen Mary College geologists to the UCL Department, associated with arrangements for sharing of resources between UCL and Birkbeck College.

As a result of the consultation following publication of 'Strengthening University Earth Sciences', the UGC initially proposed two types of department and universities were invited to submit bids for classification by 1 January 1988. The preliminary recommendations of the second stage of the UGC review were announced in March 1988; these refined the initial proposals by putting forward a spectrum of institutional provision which could broadly be classified into five types, including those institutions which had no Earth Sciences Department. The UCL/Birkbeck Department was classified as a 'type M' department: that is, a medium to large department providing teaching and research in mainstream Earth Sciences, including substantial single honours courses. Some 'type M' departments would be expected to own major items of equipment to be shared with other departments as well as serving their own research needs.

The UGC expressed the hope that there would be close collaboration between Birkbeck College and UCL. The UCL Department was allocated an additional member of staff in palynology, an addition of eleven to its planning numbers and a significant sum pro rata to these, to enable it to be well-funded for teaching. In addition, the UGC provided bridging funds to allow for the appointment of a Lecturer in Mineral Physics. Further monies will be available for the next few years to support new ventures, the maintenance and up-grading of equipment and to enable specialised computing to be purchased. The UCL Department has submitted to the

UGC a bid for its equipment needs and a further bid for physical restructuring monies to enable the co-location with the Birkbeck College Department to proceed. The UCL Department of Geological Sciences has been greatly strengthened, and its proposed academic staffing coupled with that of the Department of Geology at Birkbeck, will provide for a new and undoubtedly powerful centre for geological studies.

UNIVERSITY GRANTS COMMITTEE: ARCHAEOLOGY REVIEW

Early in 1988, the UGC set up a Working Party to consider the national pattern of provision in archaeology and to make recommendations with a view to protecting the subject against the background of declining resources. The Working Party asked institutions for statements of their academic policies and aspirations and for comprehensive details of the present state of their provision in archaeology.

The College response emphasised the central role played by the Institute of Archaeology in fostering the development of the subject nationally through its close co-operation with such metropolitan institutions as the British Museum, the Society of Antiquaries and English Heritage. This national role has assumed greater significance since 1986 when the Institute became part of UCL and the College established a Centre for the Promotion of Archaeology and Ancient World Studies. As foreseen at that time, the merger has brought about major academic advantages and opportunities for more concerted and effective use of the unique concentration at the College of archaeological collections like the Petrie Collection and library resources such as those of the Institute of Archaeology.

The College response also drew attention to the fact that, although UCL envisaged continuing development of its initiatives in Archaeology and Ancient World Studies, as outlined in its Academic Plan, these initiatives were severely constrained by lack of resources. The main constraints, occurring in the areas of academic and technical staff, and laboratory and library provision, were detailed in the College response.

The College plans to establish a Conservation Centre if the finance necessary for building this can be raised, and a vigorous fund-raising programme has been instituted for this major initiative. The Centre will provide an important new facility in archaeological conservation, for which there is both national and international demand.

The increasingly scientific orientation of archaeology nationally, and at UCL particularly, and the need for the UGC to take these factors into account

in determining the national pattern of provision in the subject, were emphasised in a response in which UCL also reiterated its commitment to securing the long-term future of archaeology at the College as a dynamic discipline which integrates both humanistic and scientific approaches to learning.

UNIVERSITY GRANTS COMMITTEE: WORKING PARTY ON PHILOSOPHY

The UGC set up a Working Party on Philosophy to review the national pattern of provision in philosophy in UK universities. The remit of the review was to consider the current state of the subject and to make recommendations for safeguarding adequate provision for teaching at undergraduate and postgraduate levels and for research in the context of recent and likely future reductions in funding. The aim of the review was to draw up a national plan for philosophy including proposals for the strengthening of departments by transfers and mergers.

The College responded with the data required and in a covering submission drew attention to the cuts in resources which had resulted in a reduction in staff in the Department of Philosophy from eleven to eight, improved to nine by the award of a New Blood Lectureship. The Department's excellence had been recognised by the award of a starred rating in the UGC's last research assessment exercise. The Grote Chair of Philosophy of Mind and Logic had recently been filled by the appointment of Professor Ted Honderich. The College's response asserted its determination to maintain the Department's excellence.

The Working Party is expected to report in early 1989.

THE NEXT UNIVERSITY GRANTS COMMITTEE RESEARCH SELECTIVITY EXERCISE

In March 1988 the UGC announced that the next research selectivity exercise would be carried out in 1989 and circulated proposals for a revised procedure and methodology. The criteria by which assessments will be made, on a scale of 1 (lowest) to 5 (highest), will include publications and other publicly identifiable output, such as patents, copyrights and licence agreements, success in obtaining Research Council Grants and Studentships as well as contract research income, and external recognition such as fellowships of learned societies. The methodology of the latest exercise has been refined

from that used for the 1986 exercise. In that exercise the College achieved outstanding results with eighteen Departments receiving starred (that is, the highest) ratings. The consequence of this is that the College receives an enhancement of its UGC grant under the so-called 'JR' ('Judgemental Research') element of the UGC's allocation formula; the College will therefore be devoting great effort to achieving the very best outcome from the 1989 exercise for recognition of its academic research quality and for its financial welfare.

ADVISORY BOARD FOR THE RESEARCH COUNCILS: A STRATEGY FOR THE SCIENCE BASE

The Advisory Board for the Research Councils (ABRC), in proposing its advice on the Science Budget in 1986, concluded that a longer-term, more strategic consideration of the future development of the science base was needed, and to this end it produced 'A Strategy for the Science Base' as a discussion document. Among some thirty-five recommendations included in this document several were designed to achieve more rapid concentration of scientific effort in order to maintain the international competitiveness of UK university research. In particular, it was proposed that the pattern of higher education provision should distinguish three types of institution:

Type R: offering undergraduate and postgraduate teaching and substantial research activity across the range of fields;

Type T: offering undergraduate and MSc teaching with associated scholarship and research activity but without advanced research facilities;

Type X: offering teaching across a broad range of fields and substantial research activity in particular fields, in some cases in collaboration with others.

In response to the ABRC the College indicated that it did not support the proposed differentiation of universities and that it had reservations about too large a concentration of resources. The College took the view that, while the Research Councils inter-disciplinary research centres in association with Type R and Type X institutions proposed in the Report, were a useful addition to the funding machinery, they should not receive too large a part of Research Council resources at the expense of other activity.

In July 1987 the Chairman of the Science and Engineering Research

Council wrote to University Vice-Chancellors and Principals inviting bids for University and Inter-institutional Research centres, and over the course of 1987-88 the College submitted a number of proposals in a variety of fields.

SCIENCE AND ENGINEERING RESEARCH COUNCIL: STRATEGIC INITIATIVE IN BIOCHEMICAL ENGINEERING

In early 1986 the Science and Engineering Research Council (SERC) decided in principle to establish Centres in Biochemical Engineering. Discussions with industry indicated general support for the development and in May 1986 the Council's Biotechnology Directorate invited bids from all universities to establish Centres. More than twenty universities submitted bids and a short-list of six universities was drawn up by the Project Advisory Group formed by the Directorate. All six short-listed universities were visited in July 1986 before a final decision was taken to award £1.6m to Birmingham University to support a four-year programme in which engineers will scale up bioreactors to enable the latest culturing technology to be used on an industrial scale, and £1.9m to UCL to enable a team to develop better ways to support delicate living organisms in reactors, and to use computers to control more effectively the growth and production of cell cultures.

Behind this initiative lies the fact that genetic engineering and other new techniques in biotechnology have the potential to provide, for example, more potent drugs with fewer side effects, to make the diagnosis of disease simpler, cheaper and more reliable, to clean up polluted environments more effectively and to protect crops against disease without the need for chemical sprays.

The aim of the Biotechnology Directorate in setting up Centres of Biochemical Engineering is to ensure that the United Kingdom maintains its position as one of the leading nations active in research and training in the subject. Support for Birmingham and UCL will enable these institutions, which already have significant activities in biochemical engineering, to maintain and develop further their position in the face of increasing international competition.

The Centres will undertake a range of research and training activities. At the research level their programmes will be complementary and cover many different facets of biochemical engineering. In addition, the Centres will develop extensively their contract research activities with industry, which will build upon the research base funded by the Directorate. The Centres already offer a range of training activities such as one-year Masters courses, three-year training in research to PhD level and short courses.

BRITISH ACADEMY COLLABORATIVE RESEARCH AWARD

To encourage research in the Humanities the British Academy initiated a scheme under which collaborative research bids were invited from higher education for awards from a £500,000 fund. In association with colleagues from the School of Oriental and African Studies and in Africa, the bid of UCL's Department of Anthropology was one of only three successful bids out of 230 submitted. UCL's involvement is Dr Murray Last's project on Islamic therapeutic practice in northern Nigeria, which is scheduled as one of the two opening projects of the team's five-year programme. The programme is focused on 're-thinking' Islamic institutions in Africa south of the Sahara.

UNIVERSITY OF LONDON: ACADEMIC INITIATIVE GRANTS

The Court of the University of London once again set aside money both for the continuation of academic initiative grants made in 1986-87 and for new grants to be made in 1987-88. The sum for new initiatives was £290,000 and the grants were to be made on a pump-priming basis, normally for only two or three years. A Sub-Committee of the College's Academic Planning Committee selected seven strong proposals from fourteen bids, and in the event the University approved two of these, a Lectureship in Spacecraft Engineering with Microwave Remote Sensing (a joint post between the Departments of Physics and Astronomy and Electronic and Electrical Engineering) and a Clinical Lectureship in Nephrology in the Institute of Urology.

COLLEGE INITIATIVES

FACULTY OF LAWS: CENTRE FOR COMMUNICATIONS AND INFORMATION

In 1987 the University of London awarded the College's Faculty of Laws an academic initiative grant to establish a centre for research and teaching in the newly developing field of communications and information law. James Michael BSc, JD, LLM, a well-known expert in the field, was appointed as the first Director of the Centre for Communications and Information and took up his post in January 1988.

This initiative will establish the UCL Faculty of Laws as a leader in what is a rapidly developing field. Research to date under the auspices of the Centre includes studies of the proposed new system of broadcasting regulation, the attempts to restrain publication of official information under the law of confidence, the European Community's initiatives regarding trans-border broadcasting throughout Europe, and United States legal restrictions on the transfer of communications and information technology and expertise.

ESTABLISHMENT OF THE DEPARTMENT OF BIOLOGY

One of the objectives the College set itself in its Academic Plan submitted to the UGC was the establishment of a single Department of Biology, and after considerable discussion and consultation this objective was achieved when the Departments of Botany and Microbiology and of Zoology and Cell Biology united as from 1 August 1987 to form a single Department under the joint Headship of Professor G. R. Stewart and Professor N. A. Mitchison.

PLANNING AND DEVELOPMENT RESEARCH CENTRE

The College's submissions to the UGC Social Studies Sub-Committee for their visit in 1984 and to the Technology Sub-Committee for their visit in 1986 confirmed that the future development of town planning studies would necessitate closer collaboration with the Bartlett School and with other Departments such as Civil and Municipal Engineering, Economics, Laws and Geography. To further this objective a Planning and Development Research Centre has been established in the Bartlett School.

The Centre will constitute a forum for academic staff with shared interests in and expertise pertaining to the built environment. It will seek to attract public and private sector core funding in order to provide the technical and administrative support services needed for the promotion of its activities. The primary functions of the Centre will, *inter alia*, include:

the promotion of multi-disciplinary research into the planning, design, financing, construction, servicing and regulation of the built environment;

active participation in public debates about the future planning of Greater London and the South East region; and

the publication of research-based advice for those who are responsible for the formulation and implementation of urban and regional policy.

In the longer term it is hoped to achieve the provision of a multi-disciplinary consultancy service operating under the aegis of the College's Academic Services Unit, a specialist environmental planning service for local community groups and/or their planning aid advisers, and longitudinal monitoring of public policy outcomes in Greater London and the South East Region, which may lead to the development of a Research and Information Service.

CENTRE FOR MEDICAL TECHNOLOGY

In February 1981 College Council approved the establishment of the Medical Instrumentation Unit (MIU) in the Department of Medical Physics. The principal objective of the Unit was to 'assist in the rapid transfer of new instrumentation technology to the manufacturers of medical instruments'. The Unit was also requested to be self-financing, to generate income for the College if possible, and to encourage multi-disciplinary development work where appropriate with other departments of the College.

The Unit has flourished, the concepts of working directly with industry have been proved, and considerable income has been generated for the College. During the six years of its existence, the MIU has undertaken contract research and development for numerous companies, and many instruments have been produced which are now in commercial production.

During the same period the Unit has significantly broadened its range of activities, the College and in particular its Medical School have undergone major changes, and revenue derived from commercially-sponsored work has become an essential part of the College's financial strategy. At its meeting on 9 February 1987 the MIU Advisory Committee received and approved a paper on the Future Strategy for the Medical Instrumentation Unit. An essential part of that strategy was that a new name should be sought for the Unit.

The MIU's initial and continuing strength lay in sensors, with instrumentation being a natural development from these activities. Now, with the merger of the UCL and The Middlesex Hospital Medical School Medical Physics Departments and the transfer to the UCL Department of responsibility for physical sciences services for the whole Bloomsbury Health District, there has been a broadening in the range of the Department's activities. To meet the challenge of the increased complexity of medical monitoring, expertise from a number of departments, such as Biochemistry, Physics, and Electronic and Electrical Engineering, will be required, and the title Medical Instrumentation Unit has therefore been changed to Centre for Medical Technology to reflect the expansion of its activities and the greater emphasis on inter-disciplinary expertise.

EQUAL OPPORTUNITIES

The College has established a Committee on Equal Opportunity to consider all aspects of equal opportunities, a cause which the College is much concerned to further. The Chairman of the Committee is Professor J. E. C. T. White.

STAFF REVIEW AND DEVELOPMENT

The College has approved a pilot scheme for Staff Review and Development to be introduced at the beginning of the 1988-89 session. The scheme applies to all academic and academically-related administrative, library and computer staff. Initially, research staff on short contracts and other related staff will not be included in the scheme. The intention of the scheme is a positive one: the establishment of a systematic review to assist individuals in achieving their full potential through appraisal and review and to enable them to develop effectively in their work and career. It is envisaged that such review and development will serve to enhance communication between members of staff and their departments, thereby establishing a better understanding of the individual needs of members of staff in relation to the needs and aims of their departments and of the College as a whole. The intentions of the scheme are developmental and not judgemental. For academic staff and academically-related staff in academic departments the reviewer will be the Head of Department and for administrative, library and computer staff the reviewers will be the Heads of Divisions, the Librarian and the Director of the Computer Centre respectively. Other reviewers may be agreed if there is good reason, approved by the Dean of the Faculty or the Secretary of the College, as appropriate. The pilot scheme will last for two years, although in large departments only half the staff will be reviewed in the first year.

STAFF TRAINING AND DEVELOPMENT

The 1987-88 session witnessed a significantly increased expression of interest in staff training and development, particularly in relation to management skills. Major contributory factors to this sustained growth of interest were the continuing publicity of training and development opportunities through the College's *Training Bulletin* and *UCL News* and the activities of the Academic Staff Training and Development Sub-Committee, and a greater awareness on the part of individual members of staff of their own training and development needs.

A third major factor was the general introduction of staff appraisal and associated training schemes into universities. The College has established a specific budget for this purpose and has appointed an Academic Staff Training Co-ordinator. While these local developments are to be welcomed, it should be stressed that a major part of the existing provision of relevant courses, which generally offer very good value for money, derives from the co-operative efforts of universities and, within the University of London, of its constituent Schools; and in this respect, the role of the Unversity Training Adviser should not be underestimated.

ENDOWMENT OF LECTURESHIPS AND FELLOWSHIPS

INSTITUTION OF THE STILES LECTURESHIP

A number of former colleagues and students of the late Professor Walter Stanley Stiles FRS, the distinguished visual scientist and Andrew Scholar and Demonstrator in Physics at UCL, took the initiative to raise funds for the purpose of establishing a memorial lecture in honour of Professor Stiles. The initiative proved very successful and the College has approved the institution of the Stiles Lectureship, thus adding to the existing list of distinguished named lectures established at UCL. It is planned that the lecture should be given annually on the subject of the scientific study of vision in the broadest sense, including anatomy, physiology, biochemistry, biophysics and psychophysics of vision as well as subjects such as illumination engineering.

C. B. FAWCETT FELLOWSHIP

The College was delighted by the generosity of Miss Edith Fawcett who agreed to endow a number of fellowships in the Department of Geography in memory of her father, the late Professor C. B. Fawcett who was Head of the Department from 1928 to 1949. The fellowships are designed to provide opportunities for teachers and other professional geographers in mid-career to study at UCL for at least one term of an academic year. Up to £5,000 per annum is available for each fellowship, and initially it is proposed that up to three fellowships be awarded each year. The College is most grateful to be given a means of fostering liaison and collaboration with colleagues from schools in such a fruitful way.

REVIEW OF AREAS OF COLLEGE

THE WORK OF THE COLLEGE ADMINISTRATION

The 1987-88 session was an extremely varied and busy one for the Central Administration of the College. The new University College and Middlesex School of Medicine (UCMSM) was in effect formed on 1 August 1987, although the Parliamentary Act merging the College with the Medical School, the Institute of Laryngology and Otology, the Institute of Orthopaedics and the Institute of Urology was not enacted until 1 March 1988. The considerable work of executing this merger involved substantial contributions by all four Divisions of the Administration. Their hard work and the close co-operation of staff of the UCMSM allowed the whole operation to proceed smoothly and the new procedures are now working well. In addition to the formation of the new School of Medicine, the increased size of the College and the culmination of its continued restructuring produced a particularly heavy workload for each of the Registrar's Division, the Finance Division, the General Division and the Bursar's Department.

The Management Information Systems Unit, headed by Dr Doug Davis, has now become formally part of the Central Administration and its work during 1987-88 was concerned particularly with the introduction in the Registrar's Division of enhanced computer systems. The Registrar's staff will need increasingly to use such systems to maintain the effectiveness of their continually expanding operations. Further computerisation of the College has enabled the Finance Division to take over greater responsibilities from Senate House, leading to an extension of the College's financial operations, conducted by Mr Mike Griffiths, the Deputy Finance Officer, under the direction of the Finance Secretary and Accountant.

The Deputy Secretary, Dr Alan Huggins, has made considerable further progress in enhancing all areas of the General Division's activities, particularly those of the Services Department, which are now based in greatly improved premises and can rely on higher quality printing and stock capability. Significant progress has been made, too, in the areas of Personnel, Catering and Residences.

The excellent and energetic efforts of the Bursar's Department in connection with the physical changes brought about by the establishment of the new School of Medicine deserve particular mention. Much has been achieved in a very short time: most of the College's pre-clinical activities are now located on the Gower Street site and further clinical operations have been transferred to the Middlesex Hospital site.

In September 1988, Mr Edward Williamson retired as Bursar after fifteen years' most valuable service to the College. Mr Williamson will be greatly missed but the College is fortunate to have appointed as his successor Mr Geoffrey Piper, FRICS, whose previous appointment was as Director of Estate Management and Technical Services at Tower Hamlets Health Authority. Among other notable departures from the Administration at the conclusion of the 1987-88 session were Mr Bill Bridger, the Senior Assistant Secretary (Personnel), and Mr Sid Hallett, the Printing Manager, who retired after, respectively, twenty and twenty-one years' much-valued service to the College. Mr Peter Deer has been promoted within the Personnel Department to succeed Mr Bridger.

THE COLLEGE FINANCES

The financial year which ended on 31 July 1988 was one of the most important in the history of the College.

The College Accounts for the year fully reflect for the first time the major effects of the College's merger with The Middlesex Hospital Medical School and the Institutes of Laryngology and Otology, Orthopaedics, and Urology. The Accounts show a very substantial increase in overall activity and an increase in total expenditure of 44 per cent (from £66.6 million in 1986-87 to £96.1 million in 1987-88) in the enlarged College. As a consequence of this expansion, UCL is now one of the largest single university institutions in the United Kingdom — well within the top 10 per cent in size.

The net deficit for the year is £1.1 million which brings the College's accumulated deficit to £6.1 million. This does not of course mean that the College is externally indebted; the total accumulated deficit continues to be contained within the amount of the College's Reserves and Provisions, as laid down by College Council in 1981.

The basic block grant from the University Court for 1987-88 failed to keep pace with inflation and pay awards, and represented a further substantial cut in real terms. The College responded positively both by increasing its income in other areas and by further savings in staff costs funded from UGC sources. Notable among the increases in income was the 11 per cent in student fees, mainly from the recruitment of additional overseas students, and the contributions to general income from overheads on research contracts and allied projects which exceeded £1.7 million — ensuring that the College remains among the university leaders in this area. Similarly, the College was able to maintain its traditionally high level of research activity, despite

the cuts in UGC-based resources, by increasing its grants for research by 19 per cent to a massive £27.8 million. All these factors combined to allow the overall level of expenditure in academic departments to remain at 73 per cent of the College's total expenditure.

Savings targets for the year were met in all areas except those relating to natural wastage. An unprecedented slowing down in the usual incidence of staff vacancies in academic departments for reasons other than normal or early retirement severely limited opportunities for savings. The College reacted by seeking further early retirements to compensate for this situation and succeeded in achieving over one hundred by September 1988, although the full financial benefit of these will not be felt until 1988-89.

Looking to the future, the College's plan to 1992 suffered a serious setback when the University Court announced its grant for 1988-89 and gave indications for subsequent years during the present planning period. These embodied a decision to reduce the proportion of total university resources allocated selectively on the basis of acknowledged research excellence below the level adopted in previous years. The College believes that this decision conflicts with the UGC's intentions — to the severe detriment of UCL. In view of the one major disadvantage to the College of the recent mergers — namely, the poor state of repair of the property inherited and the urgent need for improvement of this during the present planning period — the level of financial support indicated by the Court's projections is evidently inadequate to meet the financial objectives which the College aims to achieve by 1991-92. Yet the College's own plans to achieve these include the loss of almost two hundred posts and increases in non-Government income sources of more than £4 million, which will bring these levels to among the highest in the country.

Although UCL's balance sheet is currently relatively strong, urgent action outside the College's direct control needs to be taken to ensure that this position is maintained in the future in a manner which will enable UCL to remain in the forefront of academic achievement and excellence. The financial year 1988-89 — which will see the College's vigorously increasing its efforts to convince the University Court and the UGC that such action must be taken — will be a crucial one.

SITES AND BUILDINGS

The severe storms which raged through the South of England on the night of 15-16 October 1987 caused mainly superficial damage to buildings in Bloomsbury although more severe damage to College property at the Mullard

Space Science Laboratory at Holmbury St Mary was reported. The latter site lost some seventy trees; seven trees were destroyed at Shenley and three in Bloomsbury. The two lime trees (*Tilia europoea*) lost from the front quadrangle have been replaced with five saplings (*Tilia euchlora*).

The successful completion of the hectic programme of alterations in 1987-88 enabled all but one area of the College's pre-clinical medical activities to be accommodated on the Gower Street site. The one exception is Topographical Anatomy, for which a new dissection suite has been completed in the Rockefeller Building. Extended accommodation has been provided for the Department of Obstetrics and Gynaecology. Projects to re-site the clinical departments of Medical Physics and Computer Science and to complete the last phase of the Chemical Pathology re-siting programme are going ahead.

Major future projects will provide for the re-siting of Medical Microbiology, Histopathology and Haematology, funding for which is shared with the District Health Authority (DHA). In addition to this major re-siting programme, a new surgical block at the Whittington Hospital, Highgate, including space for clinical students, is under construction. The re-siting programme has not been affected by the radical strategic study undertaken by the North East Thames Regional Health Authority into the possibilities of building a new nine-hundred bed hospital in Bloomsbury to replace existing hospitals. The School of Medicine is co-operating with the DHA in this study, the findings of which are expected to be reported in the immediate future.

Visitors to UCL will notice several improvements both inside and outside the main College buildings. The Old Refectory has been re-decorated and a new lighting system installed. One of the front quadrangle observatories, the so-called North Transit House, has been repaired and re-roofed in copper and leased to the National Westminster Bank. Similar work is about to start on the southern building with a contribution from a benefactor. These interesting little buildings were erected by the Fulham Steelworks Company in 1906 and are listed as of historical interest. Great care was taken to ensure that the original profile of the roof of the North Transit House was copied exactly. Another noticeable improvement is the 'face lift' to the Bloomsbury Theatre, including a new box office and alterations to enhance the foyer. A canopy and lighting make the Theatre's entrance more attractive at night. The giant 'Bloomsbury Theatre' sign was designed by the cartoonist Gerald Scarfe.

The programme of refurbishment of 23-26 Gordon Square is proceeding in such a way as to enable the occupants of the Departments of History

and of Spanish and Latin American Studies to remain there while work is in progress. This project will create space sufficient also to accommodate the Department of History and Philosophy of Science on the site. A small conversion at 9-11 Endsleigh Gardens has been undertaken to provide twelve further (and much-needed) places for children under two years in the College's Day Nursery.

Despite its current financial difficulties the College has commissioned design work on three long-term projects and is working hard to raise funds for all these. The most important scheme has been the subject of a master plan prepared by the Michael Hopkins Partnership for the sites north and south of the Central Collegiate Building. The project includes proposals for new buildings to fill both of these gaps for use, *inter alia*, as Student Union accommodation and as a Conservation Centre for Archaeology. The largest building proposed is an extension adjacent to the South Cloisters to house the new Advanced Centre for Biochemical Engineering and detailed briefing is in hand on the project to accommodate this important new branch of technology. The two other major projects involve the development of student residences. Design work has been completed and schemes presented for planning approval for new residential developments at Camden Road and for the complete refurbishment of 119-131 Gower Street which together will provide over two hundred student places.

THE LIBRARY: ANNUAL REPORT

The session 1987-88 has been a year in which much of the activity has been in connection with the following session, either planning new projects which will come to fruition then or preparing new responses to future financial stringency. Of the new projects LIBERTAS, the integrated automation system, will have the most profound effect upon services to readers and upon Library administration. Planning for that system occupied increasingly the time of the Librarian and the Deputy Librarian, and, later in the session, of the several members of staff who form the implementation team. All this work will bear fruit in the Spring Term 1989 when the system is due to 'go live'. Automated projects on a smaller scale are permeating every aspect of Library activity, as the Library benefits from the College's investment in micro-computers and word-processing equipment.

Also in the planning stage is a further reorganisation of space in the Main Library to create a Jewish Studies Library. During the session the Library was fortunate to acquire two magnificent Jewish collections, the Arnold

Mishcon Library and the Altmann Collection, and the need to find a suitable location for these prompted a review of the space allocated to Jewish Studies. The Mocatta Library is already separated from the Hebrew collection, and two further locations for the new collections were felt to be unacceptable. A site for an integrated Jewish Studies Library has been found in the present Arts Periodicals Stack and funding is being sought from the Jewish community for the necessary refurbishment.

Unfortunately the final Library Committee meeting of the session had a less pleasant matter on the agenda: how to implement the £50,000 cut in the Library budget imposed by the Finance Committee as a result of the reduction in the College's UGC grant. The Library, in common with all sections of the College, is attempting to make up the shortfall in public funding by attracting more outside income, but income generation, however energetically pursued, is unlikely to off-set cuts of the magnitude being faced. The Library Committee was concerned that as far as possible the cuts should be concentrated in areas which will cause short-term rather than long-term damage. Thus cuts in the books and periodicals budgets are to be avoided and instead reductions made in opening hours on two Library sites. Next session will show the extent of the harm this decision will cause to the reading of academic staff and students. The short-term problems would be easier to accept if the long-term situation looked more settled, but apart from the uncertain nature of the College's general funding the Library has a specific cause for concern, in that next session is the final year of the UGC's special funding for books and periodicals, which brought University College Library £67,000 in the session under review. The Library Committee has been concerned to meet this threat to long-term funding by asking the College for a review of the basis of Library funding (particularly the Library's share of the College's non-UGC income) and by supporting an approach to the UGC for special factor funding of libraries of national importance.

Part of the problem in relation to the funding of University College Library is the physical proximity of other specialist collections, and many members of the University spent many hours during the 1987-88 session discussing such matters as the role of the University Library and the re-constitution of the Library Resources Co-ordinating Committee. The University Library is to collect only in the humanities, and this will throw additional pressure upon the scientific and medical collections at University College, for which a share of the previous University Library funding in science and medicine has to be secured.

The number of loans made from the original UCL libraries has risen again, this session by 5.6 per cent. This statistic typifies the increasing use of the

Library by staff and by students, perhaps as funds for alternative sources of information become tighter.

As well as being a library many people borrow from, University College Library is also a library to which many people come to read. The number of reading tickets issued to visitors increased by 29 per cent during session the 1987-88, most of the increase occurring in the Science Library. To the College's own students and staff the Library is also a place of consultation as much as a place of borrowing. The statistics published by the Standing Conference on National and University Libraries (SCONUL) show for UCL Library a far higher number of consultations of library material in relation to loans than for the average university library.

Further major changes have taken place in the senior staff of the Library. Miss Barbara Tearle, Sub-Librarian and, earlier a major influence as Law Librarian, obtained the prestigious post of Bodleian Law Librarian; Mrs Janet Percival, previously Assistant Librarian in charge of Accounts, has been appointed as Miss Tearle's successor with effect from 1 October 1988. Mr David Bovey joined the Library on 1 July 1988 from the British Library of Political and Economic Science at the London School of Economics, also the library of origin of Miss Jacqueline Whiteside whom Mr Bovey succeeds as Deputy Librarian. Miss Whiteside also had a major influence upon the Library at a significant point in its development of automated systems, the choice of the LIBERTAS system and the basic framework for its implementation. One of the longest-serving members of Library staff retired during the session: Mrs Trude Levi, well known to many thousand members of the Jewish community who benefited from her deep knowledge of the Mocatta Library and the Gaster Papers.

A very effective advertisement for the Library is the ADONIS experiment, for which the UCL Science Library has been chosen as a test site along with a handful of other libraries throughout the world. ADONIS is a trial document delivery service using optical publishing, that supplies over two hundred biomedical journals from ten international publishers on CD-ROM. The involvement of several members of staff in this experiment has been achieved through excellent cooperation between the College's Computer Science Department and the Library. Clearly Library staff will increasingly be concerned with new forms of information transmission such as the CD-ROM used for ADONIS. Traditional Library services continue for most of our readers, however, and the College has cause to thank members of Library staff for the contribution they have made to the work and life of the College during the past session.

COMPUTER CENTRE

The session was dominated by two inter-related issues. The first concerned planning for the replacement of the Centre's Euclid computer system next year. The second resulted from the decision to combine the College's computing service with those of other parts of the University in the vicinity, forming the Bloomsbury Consortium. Those involved are Birkbeck College, the British Postgraduate Medical Federation, the Institute of Education, the London School of Hygiene and Tropical Medicine, the Royal Veterinary College and UCL. The problem has been to agree a suitable management structure and organisation for this varied grouping.

In July 1988 the Computer Board for Universities and Research Councils visited the Consortium and discussed the Strategy and Operational Requirement for the new computer system. The Board decided that it could not agree to provide the money allocated for the Consortium, some £4.3m, until a much more centrally directed organisation had been formed. This is now in place and work is well under way to construct the next version of the Operational Requirement. A large number of workstations should be installed during the summer of 1989 but the central time-sharing service will not be replaced until almost a year later. The workstations will be distributed around the College in clusters connected together by networks.

Partly as a result of this reorganisation, Professor Paul Samet, Director of the Centre for more than twenty years, decided to move full-time into the Department of Computer Science where he has been involved in teaching for some time. The Centre is now headed by the Manager, Mr David Knight, who will also be an Assistant Director of the Consortium under its Director, Dr Roland Rosner. Other staffing and funding issues are yet to be resolved.

The Centre has continued to support a large community of users (five thousand) of Euclid and the University of London Computer Centre Cray and Amdahl services. The demands for personal computer and word processing support have grown enormously as has the turnover of the Computer Shop. A team of technicians provide repair services and a team of software experts help secretaries and other word processor users. In addition the staff of the Medical Computer Unit support Apple Macintosh enthusiasts.

Another major event of the year has been the successful installation of a pilot campus backbone network using an advanced fibre-optic cable technology (FDDI). This provides a high-speed connection between four departmental local area networks (Computer Centre, Computer Science, Engineering and Physics). It is planned to extend the network to inter-connect more departments and eventually the Consortium sites.

UCL INITIATIVES (UCLi) (formerly the ACADEMIC SERVICES UNIT)

Since its establishment in 1978 the Academic Services Unit (ASU) has been the College's point of contact for organisations, particularly those in the private sector, wishing to gain access to the skills and expertise of staff and the College's specialist equipment and facilities. Since its establishment, the volume of the ASU's work and the diversity of its role have both increased substantially. The turnover in the 1987-88 financial year reached £3.5m and generated a gross surplus of £365,000 to Departments and £380,000 to College. The ASU is self-financing. The salary and support costs for its ten staff are met out of the College's share of overheads before the net surplus is returned to the College fund.

Towards the end of the session plans were formulated to effect a major reorganisation of the ASU. It was subsequently decided that the Unit should be relaunched at the end of the calendar year under a new title 'UCL initiatives', to be known as UCLi. In the Autumn Term 1988 UCLi will move to new premises at 5 Gower Street. It will assume responsibility for all contract work sponsored by industry, government and the professions, including applied contracts for research and consultancy work as well as licensing and technology transfer. By channelling each of these types of project through UCLi the College will achieve an overview of all such activities. Useful data on the College's applied work will become available, and the approach to clients can be made more consistent. To achieve this, UCLi will progressively take over those industrially-sponsored projects which are currently handled in Research Grants and Contracts Section of Finance Division, presently running at £7-8m. This will effectively treble UCLi's present turnover, and additional staff will be needed. The increased workload will be distributed between three major sections:

Applied Contracts Group *Head:* Dr David Goodman
— consultancy and feasibility
— research and development
— prototype design
— EEC contracts

Technology Transfer Group *Head:* Dr Margo Goldspink
— patenting and licensing
— spin-off companies

Continuing Education Group *Head:* Ms Janet Senyshyn
— specialised updating courses for industry and government personnel.

To clients, UCLi will be the College's base for the negotiation of all financial and contractual terms relating to collaborative work. It will also be the first point of contact for exploring prospects of new collaborative ventures whether in consultancy, research, continuing education or technology transfer.

For College staff, UCLi will disseminate information about new funding opportunities for research, notably from the EEC. It will provide too a matchmaking service to link individual unsupported projects with one of UCLi's contacts in industry or venture capital organisations. UCLi also will provide an increased level of support to project directors in the preparation of applications and budgets, and the negotiation of financial and contractual terms. Finally, UCLi will provide financial management and client follow-up once projects are under way.

While the financial benefits to be obtained for the College are recognised as being vital, the potential indirect benefits of UCLi's work are at least as important. Within the College the Unit serves as a catalyst to accelerate developments, particularly those of an inter-departmental nature. It can help to extend and advertise the important contributions that academic staff make to short-term problem solving in industry, commerce and government as well as the provision of ideas which may form a new generation of product. Experience gained from industrial contracts can enrich undergraduate and postgraduate teaching and such links may also provide opportunities for students to gain valuable first hand experience of industrial technological problems and working conditions.

The role of UCLi will be to facilitate and promote all kinds of collaborative activity and to optimise the benefits arising to the College, its staff and departments in both academic and financial terms. In the forthcoming session UCLi's main objective will be to build up its staff so that it can provide the College and clients alike with a professional, efficient and business like support service.

EXTERNAL RELATIONS

The work in External Relations in 1987-88 continued to concentrate on the design of publications for student recruitment and the incorporation of the College logo into all documents formally issued from the College. A distinctive style for the covers of the Science Faculty departmental booklets had been introduced during the previous session and a related but different style was sought for the Arts Faculty. Somewhat unexpectedly, the consensus

in the Arts Faculty was that none of the alternatives looked as good as the Science Faculty model! With a minor modification to allow the two sets to be easily distinguished, eleven departments in the Arts Faculty developed their own distinctive designs and these have now been printed. Sufficient covers have been produced for three to five years, although the contents will normally be modified annually.

As the first step in developing a new set of general publications about the College, the first edition of a simple *Facts Sheet* has been issued which gives basic data on student numbers, and on this publication research turnover and status relative to other UK academic institutions. To complement the Facts Sheet and the traditional Annual Report of the College, a new illustrated annual record of College activities is currently being planned for production early in 1989. The primary audience for the new document will be senior management in industry, commerce and government, but it may also be used in whole or in part as an annual report to old students of the College.

A new internal news letter, *UCL News*, edited by Mr Nick Clewley, the College Information Officer, was produced fortnightly during term time and distributed widely throughout the enlarged UCL to all members of staff. A desktop publishing programme on an Apple Macintosh computer was used to prepare the final copy for both *UCL News* and *The Bulletin* for final production by the College Printing Office.

The principal public relations activity during the session was associated with announcement of the name of the Provost-elect. An exclusive interview was given to the *Financial Times* and the resulting article appeared the day before the official announcement, following speculation in one of the Sunday newspapers. The extensive coverage in the media generally chose to link the appointment of an individual with an industrial background to the concurrent article in *The Bulletin* on the need to ease the College's financial problems by persuading additional members of the academic staff to take 'early retirement with an even newer face'. *The Bulletin* article ensured that the total of early retirements exceeded the target number but gave some journalists the misguided impression that UCL might become bankrupt.

Work has proceeded on developing the appeals to raise funds for new buildings to house Biochemical Engineering and a new Conservation Centre for Archaeology. The Appeal Director for the latter, Ms Cathy Giangrande, has worked closely with External Relations in generating and producing a very handsome appeal brochure, funded entirely from industrial donations. A small reception was held in the Flaxman Gallery in July 1988 for a number of distinguished guests who are interested in the work of the Conservation Centre while applications have been made to a number of foundations for contributions towards this project.

A design study has been carried out on College maps with the assistance of the Bursar's Office and the Cartographic Unit in Geography. It was decided that the principal buildings should be known by the name of appropriate individuals rather than by the title of their current occupants. The buildings previously known as Zoology and Old Engineering are now known as the Medawar and Chadwick buildings respectively. New large scale maps will be installed at all the main entrances to the College prior to the start of the 1988-89 session and a complementary handout sheet will be printed in-house. Further work is planned on posting signs in the public areas of buildings.

The Director of External Relations visited the United States in February 1988 to attend a technical conference in Houston and the Annual Conference of the South West Region of CASE (Council for the Advancement of Support for Education) in Atlanta, Georgia. Visits were also paid to Rice University, the University of Chicago and Johns Hopkins University to discuss with the appropriate individuals how American expertise in promoting the image of a university can be successfully adapted for use in the United Kingdom. The need to retain contact with former students is essential in such promotional work and funds have been allocated by both the Friends of UCL and the College towards the cost of establishing a computer-based set of data on all the previous students who have attended the College. Discussions are also taking place at a national level regarding the establishment in this country of an organisation similar to CASE.

LIAISON WITH SCHOOLS

The well-established pattern of schools liaison work throughout the College continued during the session. As well as the activities of the Schools Liaison Officer and staff in the Registrar's Division, this also involved many academic staff, both through departmental interviewing procedures and individual visits to schools. A number of departments also organised Sixth Form Open Days and Conferences, and there were Faculty-based Open Days in Medical and Biological Science and in Engineering.

The Annual Meeting between the Provost and Tutors with representatives of the Secondary Heads Association, Headmasters' Conference and Girls Schools' Association took place in early December 1987, and the College Schools Conference, for heads, senior teachers and sixth form advisers, was again held successfully on 14 and 15 April 1988.

The College film and accommodation video continued to attract a high level of usage. As a result of the growing number and importance of Sixth Form Higher Education Conferences, a strikingly designed display board

was commissioned for use on such occasions. A special issue of *UCL Update*, the schools newsletter, explained the College's approach to admissions policy, and a second edition of *UCL Science* was even more impressive than the first. Considerable progress was also made in the introduction of improved formats for departmental pamphlets.

During the session it was announced that Dr David Oakley of the Department of Psychology would replace Dr Peter Wood as Schools Liaison Officer. In a Final Report submitted to College Council *via* Academic Board, reviewing his five years' tenure, Dr Wood emphasised the rapidly changing environment of home student recruitment. Declining numbers of school leavers, attitudes towards the cost and other aspects of living in London, the College's diffuse image in schools, and increased efforts by other institutions, were each contributing to making student recruitment more acutely competitive across the whole spectrum of UCL courses. In response to the growing demands for information about the College, further close co-ordination of its diverse recruitment activities would be needed, directed towards a wider range of potential students, including mature applicants in Britain and Europe.

FOREIGN STUDY OFFICE

In its second year of operation, the Foreign Study Office, with Mr Peter Craggs as its Director, has considerably expanded its range of activities in the field of international education. As a result of this, the College was able to appoint an Assistant to the Director, a position briefly held by Mr Mark Helston before his transfer to the Academic Services Unit, and now filled by Ms Sara Hibbert who had previously worked for the British Council.

At a time of more competition for overseas students from other higher education institutions in the United Kingdom as well as increased activity by the USA and, particularly, by Australia, the College succeeded in raising its overseas student population by 88 from 1161 in 1986-87 to 1249 in 1987-88. The major contribution to this was at undergraduate level; recruitment at postgraduate level was much more variable with one or two departments showing a not insignificant decrease. However, overall the College should feel satisfied with this achievement at a time when several UK universities were reporting a drop in overseas student numbers.

The Office has been responsible for the production of three new booklets for overseas students this year. The new *Guide for Overseas Students*, which combines a brief introduction to the College with a section on the steps overseas students need to take once they have received an offer from the

College, is proving very popular. For the US Junior Year Abroad market, a booklet entitled *Study in the Heart of London* with an accompanying Course Lists Brochure has also been well-received. All these publications have been circulated widely both within College and to institutions all over the world through our ever-expanding computerised mailing lists.

The Office has arranged visits by UCL representatives, both academic and administrative, to promote the College in Brunei, China, Hong Kong, Japan, Korea, Malaysia, Singapore, Thailand and the USA. Mr Nick Clewley, the Assistant Registrar (Publicity and Information), has also toured international schools in several European countries, a source of both home and overseas students, as well as attending the Annual Conference of the European Council of International Schools in Paris. The Director was invited by the British Council to visit Indonesia in February 1988 to undertake a market survey on private universities there; a report of his findings was subsequently published by the British Council. Following a submission on our research record the Brazilian Government chose UCL as one of fifteen institutions in which to expand that country's doctoral and postdoctoral training in the UK in five specified fields over the next five years. Visitors were also received in the Office from China, Indonesia, Japan, Singapore and the USA.

A new exchange agreement is under negotiation with the University of Quebec. New JYA agreements have been signed with the University of Chicago, Duke University and Haverford College, all of which are top rank US institutions.

In the light of the future merger of Queen Mary College and Westfield College, Tufts University decided to move their London programme from Westfield to UCL, with the first Tufts students due to attend UCL in October 1988. Negotiations are currently in progress with Vassar College and Rutgers University for similar agreements.

The Foreign Study Office also successfully instituted the centralisation of the issuing of transcripts for JYA students this year. Although involving the Office in the collection and collation of a large amount of information, the exercise has paid off in terms of its speed and reliability.

It is important that the College does not simply see overseas students as a source of extra revenue but should try to meet the demands made by an increasing number of such students by providing an improved service. A start to this has been made this year with the introduction of a pilot orientation programme in October 1987 which it is hoped to develop further in the 1988-89 session. It is also hoped to pursue the possibility of providing in-house pre-sessional and in-sessional English Language courses during the next academic year.

CAREERS ADVISORY SERVICE

The College Careers Office in Foster Court was remodelled and redecorated during the Summer Vacation 1987. The work was completed rather later than had been hoped, during the Autumn Term 1987, the busiest period of the year for the Careers Advisory Service. Nevertheless, careers staff succeeded in continuing to provide a friendly and efficient service to students while the programme of refurbishments was being completed. The Careers Office was formally re-opened by the Provost on 23 May 1988. The very favourable comments received from students, visiting employers and careers advisers from other services and from members of academic staff certainly seemed to justify the redecoration project. (Indeed, other Schools of the University, such as Imperial and Queen Mary Colleges and the London School of Economics, are now being asked to consider improving their facilities to match the UCL standard!)

The College's careers staff comprise a team of six, including three Careers Advisers employed by the University of London Careers Advisory Service (ULCAS) and three Careers Office staff employed by UCL. The range of services provided to students include individual interviews with Careers Advisers; careers discussion groups and seminars; careers 'surgeries' (short, informal discussions with Careers Advisers); and departmental careers talks, which Careers Advisers gave to usually second and third year undergraduates in Laws, History, Geography, Economics, Physics, Biochemistry, Mathematics and Pharmacology, during the 1987-88 session. These talks were arranged mostly at the request of Careers Tutors, who have been appointed in all the main academic departments of College. Departmental Careers Tutors, who provide a valuable point of contact between their students and the Careers Advisory Service, are circulated by the Service with relevant careers information and vacancies, and put in touch with appropriate employers (to whom they may arrange occasional visits).

ULCAS provided the College Careers Office with an Opus II personal computer and printer in October 1987 to enable UCL students to make use of 'Gradscope' and 'Cascaid' interactive choice computer programmes. The system was used by 342 students during the first six months of its being available; many students find it very helpful to bring the computer print-outs of suggested careers areas to discuss at subsequent careers interviews or 'surgery' sessions. The Careers Office now has over 125 video cassettes (most of them provided free of charge by employers and professional institutions) on a wide variety of career areas, for use either by individual students on demand or by careers advisers in seminars.

The second UCL Careers Opportunities Fair, organised jointly by the College's Student Industrial Society, the Careers Service, the College Services Department and the Old Students' Association, was held on 5 November 1987. (Each employer organisation attending donated £100 towards the costs of mounting the event.) The Fair provides an invaluable opportunity for final year undergraduates to meet and talk informally with employers before making applications to the 'milk round'. The 1987 event was judged to be a great success and preparations are already in hand for the 1988 Fair.

ASSOCIATION OF FRIENDS OF UCL

President: Sir Henry Phillips

The Association of Friends of University College gave in the 1987-88 session more than £28,000 to various projects within College, ranging from £8,500 for the setting up of an alumnus database (matched by Finance Committee) to £100 to the Rifle and Pistol Club to assist in the improvement of their firing range. The Day Nursery benefited from a grant of £4,500 to assist with the equipment of their new extension and the Students' Union received £3,750 towards the cost of their desktop publishing system.

Among other awards were a grant of £4,500 to the UCL and UCH Boat Club for the purchase of a new Janousek eight, £2,000 to the UCLU Video TV Society, £1,000 to the UCLU Drama Society, £520 to the UC Opera and a total of £4,500 for various expeditions.

Since its inception in 1952 the Association has now donated over £210,000 to the College. The demand for grants is increasing and the Friends are reliant on the generosity of their subscribers. The Registrar, as Honorary Secretary of the Friends, would be delighted to hear from members and ex-members of College who are interested in supporting, by means of covenants, gifts or subscriptions, the work of the Association.

OLD STUDENTS' ASSOCIATION

President: Mr F. C. Gee

The Association again contributed to the Careers Fair held for final year students by providing three afternoon seminars presented by former students who are now in commerce and industry. The Annual General Meeting was scheduled so as to take place on the same day, with a buffet supper

and disco following the meeting. We were pleased to give our usual support to the College Opera — this year a performance of Verdi's *'Il Corsaro'* — through a block booking of seats. In March we welcomed Professor Lewis Wolpert as our special guest, particularly in his capacity as Deputy Head of the Department of Anatomy and Developmental Biology within the recently merged University College and Middlesex Hospital Schools of Medicine. A timely and entertaining talk was provided by Professor Geoffrey Martin, Professor of Egyptology, who, as our guest at a dinner in May, spoke on excavation work at the Saqqara Necropolis, and in particular the Tomb of Maya, treasurer to Tutankhamun, discovered only this year. Our programme of activities for the year concluded with a visit to the Houses of Parliament, followed by a reception in the Lords' Dining Room, as guests of Lord Annan, former Provost of UCL and Vice-Chancellor of the University of London.

PUBLIC LECTURES

The following public lectures were among those arranged by the College during the session: Public Lectures by the Sir Banister Fletcher Visiting Lecturer in Architecture, Professor William J. R. Curtis on *Principle Beyond Style*, (i) *Contemporary Transformations of Modern Architecture*, (ii) *Regionalism and Identity in the Developing World*, (iii) *Against Fashion: The Historian's Responsibility*; Chambers Memorial Lecture by Professor J. B. Trapp on *John Colet, Dean of St Paul's, 1467-1519*; The Commonwealth Fund Lecture in American History by Professor George M. Fredrickson (Stanford University) on *State and Society in the Gilded Age*; Freud Memorial Lectures in Psychoanalysis by (i) Marion Burgner on *Analytic Work with Adolescents: Terminable and Interminable*, (ii) John Steiner on *The Aim of Psycho-Analysis*, (iii) Anton O. Kris on *The Interplay of Mental Conflict: A Clinical Illustration from Psychoanalysis*, (iv) Ismond Rosen on *Psychoanalysis and Homosexuality*, (v) Anne-Marie Sandler on *Analysis of the Transference: A Psychoanalytic Case Illustration*, (vi) Robert Michels (Cornell University) on *Psychoanalysts' Theories*, (vii) Eric Rayner on *A Place for Logical Theory in Psychoanalysis?*, (viii) Patrick Casement on *Some Effects of Theory on the Psychoanalytic Process*, (ix) Malcolm Pines on *The Psychoanalytic View of Shame*, (x) Nina Coltart on *The Superego: Anxiety and Guilt*, (xi) Edna O'Shaughnessy on *The Oedipus Complex: Is it Universal?*, (xii) Carlo Strenger (Hebrew University of Jerusalem) on *The Psychoanalytic Vision of Human Reality*; S. V. Keeling Memorial Lecture

in Greek Philosophy by Professor Michael Frede (Princeton University) on *Aristotle's Conception of the Soul*; The Neale Lecture in English History by Professor P. Collinson (University of Sheffield) on *Puritans, Men of Business and Elizabethan Parliaments*; Lord Northcliffe Lectures in Literature by Miss Barbara Everett (University of Oxford) on *Purchasing Experience: A Reading of Four Tragedies*, (i) *Hamlet: 'Growing'*, (ii) *Othello: 'Mixing'*, (iii) *King Lear: 'Loving'*, (iv) *Macbeth: 'Succeeding'*; Seton Memorial Lecture by Dr D. L. d'Avray on *Some Franciscan Ideas About the Body*; Shearman Memorial Lectures by Professor Thomas S. Kuhn (Massachusetts Institute of Technology) on *The Presence of Past Science*, (i) *Regaining the Past*, (ii) *Portraying the Past*, (iii) *Embodying the Past*; Smeed Memorial Lecture by Professor K. M. Gwilliam (University of Leeds) on *Setting Transport Free. An Appraisal of the De-regulation of Local Public Transport*; Smith, Kline and French Laboratories Lecture in the Allied Health Sciences by Dr Michael J. Berridge, FRS (University of Cambridge) on *Inositol Lipids and Intracellular Communication*; William Townsend Memorial Lecture by Mr Declan McGonagle on *Art: The Issue of Place*.

A memorial lecture in honour of Professor C. W. Allen was given by Carole Jordan (University of Oxford) on *Understanding the Solar Corona*; The Alexander Altmann Memorial Lecture was given by Professor Isadore Twersky (Harvard University) on *Morality and Law: Examples from Maimonides*; The Daryll Forde Lecture was given by Professor Jan Vansina (University of Wisconsin-Madison) on *The Equatorial African Rainforests: Habitat, Economy and Society*; the annual lecture in the Centre for Biochemical Engineering and Biotechnology was given by Professor G. Schmidt-Kastner (Bayer, Wuppertal) on *New Technologies in Downstream Processing*; The Fifth Gordon Childe Memorial Lecture was given by Professor V. M. Masson (Soviet Academy of Sciences) on *The Birth of Civilisation*; Public Lectures on Current Legal Problems were given by (i) B. A. K. Rider (University of Cambridge) on *Policing the City — Combating Fraud in the Corporate Securities Industry*, (ii) Sir Johan Steyn on *Evidence in Aid of the Construction of Contracts*, (iii) Dimity Kingsford-Smith on *The Regulation of Euro-Currency Securities*, (iv) Robert Reiner (University of Bristol) on *The Office of Chief Constable*, (v) Professor Denis Galligan (University of Southampton) on *The Right to Silence Reconsidered*, (vi) Andrew Rutherford (University of Southampton, The Howard League for Penal Reform) on *The Penal Crisis: Paradox and Possibilities*, (vii) D. A. Thomas (University of Cambridge) on *Current Questions in Sentencing*; Sir John Foster Memorial Lecture was given by Anthony Lewis (New York Times) on *To Call Power to Account: the Public Right of Free Speech*; Public

Lectures in Hebrew and Jewish Studies were given by (i) Professor H. Beinart (Hebrew University) on *The Jews in Christian Spain: The Story of a Heritage*, (ii) Professor Angus MacKay (University of Edinburgh) on *The Rites of Violence and the Demonisation of the Jew in Late Medieval Spain*, (iii) Professor Jonathan Israel on *The Golden Age of Dutch Sephardi Jewry 1600-1713*, (iv) Professor Bryan Pullen (Manchester University) on *Marranos in Venice in the Late 16th and Early 17th Centuries*; Seminars were given in the Institute of Archaeology by (i) Dr N. Praslov (Soviet Academy of Sciences) on *Recent Excavations at Kostienki*, (ii) Professor V. M. Masson (Soviet Academy of Sciences) on *Contemporary Soviet Archaeology: Organisation, Methods and Policy with Regard to the Past*.

A Memorial Lecture, *The Letter of Mardochaeus the Jew to Alexander the Great*, was given by Carlotta Dionisotti as a Tribute to the late Professor Arnaldo Dante Momigliano, KBE.

Inaugural Lectures were given by: Dr D. A. Brown (Professor of Pharmacology) on *The Personality of Nerve Cells and its Alteration by Drugs*, Dr Susan N. Brown (Professor of Mathematics) on *Some Aspects of Swirling Flow*, Dr P. M. Cohn (Astor Professor of Mathematics) on *An Algebraist Looks at Codes or How to Parse without Punctuation*, Dr B. D. Gomperts (Professor of Biochemistry) on *The Mechanism of the Secretory Process — The Limelight on Mast Cells, a Metronome, and Some Musical Interludes*, Dr A. P. Haines (Professor of Primary Health Care) on *Beyond the Fragments: Toward Integration in Health Care*, Dr N. Harris (Professor of Development Planning) on *Economic Development and Urbanisation*, Dr B. Kapferer (Professor of Anthropology) on *Anthropology and the Modern State*, Dr G. T. Martin (Professor of Egyptology) on *The People of Memphis in the Time of Tutankhamun and his Successors*, Dr J. Pegington (S.A. Courtauld Professor of Anatomy) on *Old Anatomy, New Images*, Dr R. L. Souhami (Kathleen Ferrier Professor of Clinical Oncology) on *Small Cell Cancer of the Lung*, Dr J. A. Stephens (John Astor Professor of Physiology) on *The Control of Finger Movements Studied in Man*, Dr C. Vita-Finzi (Professor of Geography) on *Time and Motion in Earth History*, Dr P. S. Walker (Professor of Biomedical Engineering) on *The Past, Present and Future of Artificial Joints*, Dr C. Wilkin (Professor of Physics) on *The Frontier between Particle and Nuclear Physics*.

Lunch-Hour Lectures in the First Term were given by: Dr J. G. U. Adams (Geography) on *Risk and Freedom: Do You Sincerely Want to be Safe?*, Professor I. O. Angell (Psychology) on *Computer Graphics for All*, Dr C. G. D. Brook (Medicine) on *Growth and Growth Hormones*, Professor P. N. Campbell (Biochemistry) on *The Contract Researcher — An Endangered*

Species, Mr W. H. A. Larrett (German) on *Snow White, Two Professors and the Grim Events of December 1837*, Sir James Lighthill (The Provost) on *Computers and Weather Forecasting*, Professor H. G. T. Maehler (Greek) on *Vergil in Greek Schools*, Dr S. R. Merrett (Bartlett School) on *Homeless in Basildon: Hard Times in a New Town and How to Change Them*, Dr J. G. Nandris (Institute of Archaeology) on *The Genius of Stradivari and Why is Excellence Rare?*, Dr Venetia J. Newall (English) on *Storytelling*, Professor Sir Randolph Quirk (English) on *English is Not Enough*, Mr J. C. Rae (Bartlett School) on *Bruce Goff and the Architecture of the Why Not?*, Professor A. Sheiham (UCM School of Dentistry) on *How to Improve Your Dental Health*, Professor Hannah Steinberg (Psychology) on *Mental Health — Physical Health*, Professor M. W. Swales (German) on *In Praise of Beethoven's 'Fidelio'*, Dr L. G. Willumsen (Civil and Municipal Engineering) on *Transferring Public Transport Technology to and from the Third World*.

Lunch-Hour Lectures in the Second Term were given by: Dr Evelyn R. M. Abberton (Phonetics and Linguistics) on *At a Loss for Words*, Dr P. J. Armour (Italian) on *Griffins in Medieval Lore and Legend*, Dr W. M. Bray (Institute of Archaeology) on *The Goldsmiths of Ancient America*, Professor C. G. Clark (Surgery) on *Has General Surgery a Future?*, Dr D. A. Cowan (Biochemistry) on *Life at High Temperatures*, Professor M. H. Crawford (History) on *Archaeology with 'Pesto' Sauce*, Professor M. J. B. Duff (Physics) on *Paradoxes*, Mr M. Edwards (Bartlett School) on *A New Town at Kings Cross?*, Dr A. F. Furnham (Psychology) on *Culture Shock: The Travail of Travel*, Professor M. Glickstein (Anatomy) and Professor N. A. Mitchison (Biology) on *Biology: Reductionism and Scientific Analysis*, Professor H. S. Jacobs (Medicine) on *Assisted Fertility: Ethical and Political Dilemmas*, Professor G. Kaye (English) on *A Computer's Way with Words*, Mrs Gillian Martin (School of Library, Archive and Information Studies) on *Two Thousand Years of Mapping Australia*, Mr R. E. Rawles (Psychology) on *The 1988 Revolution? Openness and Restructuring in the Soviet Union*, Dr W. B. Somerville (Physics and Astronomy) on *Pictures in the Sky*.

A lunch-hour recital was arranged in association with the UCL Chamber Music Club: *Beethoven String Quartet — Op. 18. Nr 2 in G Major*. It was given by Friends of the late Frank Winton.

SUPPLEMENT

HONOURS, DISTINCTIONS AND AWARDS

In the New Year Honours List Rabbi Sir Immanuel Jakobovits, Chief Rabbi of the United Hebrew Congregation of the British Commonwealth of Nations, a student of the College in 1938-39 and a Fellow of the College, was created a Life Peer.

Professor Bernard Evans Tomlinson, a student of Medical Sciences at the College from 1938-40 and Chairman of the Northern Regional Health Authority, and Mr Justice Yang Ti Liang, a student of Laws at the College from 1950-53 and Chief Justice-designate, Hong Kong, were created Knights Bachelor.

Professor Gordon Donaldson, a student of History at the College from 1935-38, received the CBE for services to Scottish History. Mr F. Addison, a student of Laws from 1948-51, lately Judge of the High Court, Hong Kong, received the CBE in the Diplomatic Service and Overseas List.

Mr T. Edwards, Senior Administrative Assistant in the Bursar's Department, was awarded the MBE for his many years' service in the Royal Navy from which he retired with the rank of Lieutenant Commander.

FELLOWS AND HONORARY FELLOWS

Under the College Statutes and Regulations the Council may elect annually as Fellows of University College London not more than ten persons who are former students of the College and who have attained distinction in the arts, literature, science or public life, and as Honorary Fellows of University College London not more than two persons who have rendered exceptional service to the College or who have had a close connection with it. In 1987-88 the Council made the following elections:

Fellows

Mr Michael Andrews, former student of the Slade School of Fine Art and a painter with an international reputation;

Dr H. Baderman, Consultant Physician in the Accident and Emergency Department of University College Hospital, a member of the Parliamentary Advisory Committee on Transport Safety and Chairman of the National Child Accident Prevention Trust;

Dr Shirley A. Barlow, Senior Lecturer in Classical Studies and Master of Eliot College at the University of Kent;

Mr B. W. Bennett, Vice-President of Edward Arnold (Publishers) Limited and a Founder Member of the Crabtree Foundation;

Professor J. T. Coppock, Ogilvie Professor of Geography in the University of Edinburgh and Secretary and Treasurer of the Carnegie Trust for the Universities of Scotland;

Professor H. Halberstam, Professor of Mathematics and Head of the Department of Mathematics in the University of Illinois;

Professor F. F. Heymann, Quain Professor of Physics and Head of the Department of Physics and Astronomy at the College from 1975 to 1987;

Professor M. D. Lilly, Professor of Biochemical Engineering and Director of the Centre for Biochemical Engineering and Biotechnology at the College;

Professor R. C. Woledge, Professor of Experimental Physiology and Head of the Department of Physiology at the College;

The Rt Hon. Lord Young of Graffham, Secretary of State for Trade and Industry, a member of the Privy Council and former Secretary of State for Employment.

Honorary Fellow

Sir David Wilson, Director of the British Museum and former Professor of Medieval Archaeology and Head of the Department of Scandinavian Studies at the College.

Among many honours and awards received and appointments obtained by members and former members of staff of the College were the following:

Dr P. H. Abrahams (Anatomy and Developmental Biology) was appointed as the Moderator for Part 1 MCSP for the Chartered Society of Physiotherapists, and as the Annual Examiner in Anatomy 1988 for the Royal College of Surgeons of England;

Dr K. B. Atkinson (Photogrammetry and Surveying) was elected President of the Photogrammatic Society for the period November 1985 to November 1987; at the International Congress of Photogrammetry and Remote Sensing in Kyoto, Japan, in July 1988 he was elected Treasurer and Council Member of the International Society for Photogrammetry and Remote Sensing for the period July 1988 to August 1992;

Dr Rosemary D. Ashton (English) and Dr J. A. Graham-Campbell (History) were appointed to British Academy Readerships;

Professor B. J. L. Berry, Professor of Political Economy at the University of Texas at Dallas and a Fellow of the College, has been awarded the Victoria Medal by the Royal Geographical Society for his contribution to human geography;

Professor A. Boyde (Anatomy and Developmental Biology) was awarded the John Tomes Prize by the Faculty of Dental Surgery, the Royal College of Surgeons;

Emeritus Professor E. H. Brown (Geography) received the David Linton Award for 1988 from the British Geomorphological Research Group;

Professor G. Burnstock, Head of the Department of Anatomy and Developmental Biology, was made an Honorary Member of the Royal College of Physicians, and he was appointed a Member of the Physiological Systems and Disorders Board of the Medical Research Council of Great Britain; he also delivered the Oliver-Sharpey Lecture, Royal College of Physicians, London, and the Ariens Lecture, Utrecht;

Professor R. J. H. Clark (Chemistry) was elected a member of the Senate of the University of London and a Vice-President of the Dalton Council of the Royal Society of Chemistry;

Professor R. U. Cooke, Head of the Department of Geography, was Visiting Professor at Arizona State University at Tempe from April to May 1988; and also a member of the Department of Environment Building Effects Review Group (Acid Rain);

Professor D. E. N. Davies, Vice-Provost, Head of the Department of Electronic and Electrical Engineering and Pender Professor of Electrical Engineering, was appointed Vice-Chancellor of Loughborough University of Technology;

Professor A. P. Dawid (Statistical Science) was appointed Chairman of the Research Section of the Royal Statistical Society and a Member of the Medicines Commission;

Dr P. J. Donnelly (Statistical Science) was appointed to the Chair of Statistics and Operational Research at Queen Mary College;

Dr D. A. Eisner (Physiology) has been awarded the Wellcome Prize in Physiology by the Physiological Society for 1988;

the 1988 Iwan Åkerman Biannual Award of one million Belgian francs 'to stimulate original studies relating to basic research in the areas of compression, expansion, and conditioning of air and other gases; and also in the field of conservation, transformation, recuperation of energy' has been made to Dr M. B. Ewing and Dr J. P. M. Trusler, respectively Lecturer and Honorary Research Assistant in the Department of Chemistry, by the Belgian National Fund for Scientific Research for their work on the speed of sound in gases;

Dr S. Gallivan (Clinical Operational Research Unit, Statistical Science) was a member of the DHSS AIDS Analytic Support Group;

Professor C. R. Ganellin FRS, Smith Kline French Professor of Medicinal Chemistry, has been awarded the 1988 Messel Medal by the Society of Chemical Industry;

HM King Juan Carlos of Spain conferred the honour of Knight Commander of the Order of Queen Isabella of Castille upon Dr A. M. Garcia, Head of the Department of Spanish and Latin American Studies, for his contribution to Hispanic Studies;

Dr M. J. Geller, Head of the Department of Hebrew and Jewish Studies, received a grant of $27,500 from the National Endowment for Humanities (Washington DC) for research on Sumerian incantation literature;

Dr A. G. Gilbert (Geography) was a Senior Research Fellow of the Center for US-Mexican Studies at the University of California at San Diego from March to August 1988;

Professor Sir John Hale (History) received the Honorary Fellowship of Regent's College;

Professor D. F. N. Harrison (Institute of Laryngology and Otology) was Visiting Professor at the Royal Society of Medicine (USA) Foundation in Philadelphia and Wellcome Professor of Medicine in South Africa for April to May 1988; he also received the Gold Medal of the New York Eye and Ear Alumni Association; he gave the Douglas J. Guthrie Lecture for the Scottish Otolaryngological Society and the first Bob Owen Lecture at Cardiff, both in June 1988; he became an Honorary Member of the Laryngeal Cancer Association and an Honorary Fellow of the College of Surgeons of South Africa; Professor Harrison was also Co-ordinator for the Counsellor Committee on Nomination for IFOS Awards and Honorary Secretary of the Royal Society of Medicine;

Mr N. B. Harte (History) has been elected a Fellow of the Society of Antiquaries;

Dr D. F. Henn (Spanish and Latin American Studies) was appointed Hispanic Editor of the *Modern Language Review;*

Professor R. Hinchcliffe (Institute of Laryngology and Otology) was appointed a member of the World Health Organisation expert advisory panel on prevention of deafness and hearing impairment; he was re-elected Secretary-General of the International Society of Audiology and was appointed President of the International Association of Physicians in Audiology;

Dr Valerie S. Isham (Statistical Science) was appointed Honorary Secretary of the Royal Statistical Society Research Section, and a member of the Chief Medical Officer's Working Group on AIDS and HIV prediction;

Professor J. L. Jowell, Professor of Public Law and Dean of the Faculty of Laws, has been appointed Lionel Cohen Lecturer at the Hebrew University of Jerusalem for 1988;

Dr Marilyn Lord (Mechanical Engineering) was leader of the team which won first prize in the THES/Digital Equipment Limited national competition for computer applications developed by higher education institutions, the UCL entry being concerned with the design of orthopaedic footwear;

Professor Lu Jiaxi, Fellow of the College, received the Honorary degree of DSc from the City University;

Dr M. Katz (Obstetrics and Gynaecology) was elected to the Fellowship of the Royal College of Physicians;

Emeritus Professor D. Lowenthal (Geography) was appointed the first Solomon Katz Visiting Professor in the Humanities at the University of Washington;

Professor G. Manners, Professor of Geography, continued as a Specialist Adviser to the House of Commons Select Committee on Energy; he was also Chairman of the Sadler's Wells Foundation and Trust;

Mr P. McKelvie, Dean of the Institute of Laryngology and Otology, was appointed to an Honorary Fellowship of the Royal College of Surgeons (Edinburgh);

Emeritus Professor W. R. Mead (Geography) received the Fennia Medal of the Finnish Geographical Society;

Dr C. B. Modell (Obstetrics and Gynaecology) was awarded the World Health Organisation bronze medal in recognition of his support and assistance in the development of the Hereditary Diseases Programme;

Professor E. Paolozzi, Fellow of the College, received the honorary degree of DLitt from the University of London;

Dr Ade Pye (Institute of Laryngology and Otology) was elected a Council Member and Vice-President of the Royal Institution;

Professor Sir Randolph Quirk, Emeritus Professor of English Language and Literature, Fellow of the College and former Vice-Chancellor of the University of London, had the honorary degree of DLitt conferred upon him by the University of Glasgow; he was also appointed President of the College of Speech Therapists;

Dr F. D. Rose (Laws) was appointed General Editor of Lloyd's Maritime and Commercial Law Quarterly;

Dr J. Salt (Geography) was UK Correspondent of the OECD SOPEMI Committee;

the Junior Whitbread Prize was awarded by the London Mathematical Society to Dr A. H. Schofield (Mathematics) for his work in ring theory;

Dr N. S. Shah (Institute of Laryngology and Otology) was appointed President of the Indian Medical Association;

Professor A. Sheiham (University College and Middlesex School of Dentistry) was awarded the degree of Doctor Honoris Causa by the University of Athens;

Emeritus Professor H. S. Smith of the Department of Egyptology was awarded the degree of DLitt by the University of London;

Professor P. D. Wall (Anatomy and Developmental Biology) was awarded the Sherrington Medal by the Royal Society of Medicine, the Bonica Medal by the International Association for the Study of Pain, Hamburg, the Gunn Award by the University of Washington Medical School, Seattle, the Wakeman Award 1988, the First Annual Bristol-Myers Award for Distinguished Achievement in Pain Research, 1988, and the honorary degree of DSc by the University of Siena; he was also appointed Fellow of the Royal College of Physicians, and Visiting Professor at the Royal Society of Medicine Foundation, New York;

Dr M. P. Weitzman (Hebrew and Jewish Studies) was invited to the Institute for Advanced Studies at the Hebrew University of Jerusalem as a Research Fellow;

the first Science Award of the International Academy of Astronautics has been made to Professor R. Wilson, Perren Professor of Astronomy and Head of the Department of Physics and Astronomy, for proposing and developing the IUE concept, an ultraviolet space observatory which has played a key role in world astronomy since its launch more than ten years ago;

Dr C. J. Woolf (Anatomy and Developmental Biology) received the First Award for Distinguished Young Scientist, 1987, from the International Association for the Study of Pain, and a Bristol-Myers Travelling Professorship from the Royal Society of Medicine.

APPOINTMENTS

The following distinguished appointments to established Chairs have been made:

Dr R. K. Burcher, Chief Superintendent of the Admiralty Research Establishment at Haslar, was appointed to the newly established Vickers Shipbuilding and Engineering Limited Chair of Submarine Design and Engineering from 1 October 1987;

Dr P. J. Ell, Reader in Nuclear Medicine, was appointed to the Chair of Nuclear Medicine;

Professor Ted Honderich, Professor of Philosophy by conferred title at UCL, was appointed to the Grote Chair of Philosophy of Mind and Logic;

Mr Bernard Cohen, distinguished artist and formerly teacher at the Slade School of Fine Art, was appointed to the Slade Chair of Fine Art;

Professor R. R. P. Jackson, Director of the Clinical Operational Research Unit, was appointed to the newly established Chair of Clinical Operational Research and Information Technology;

Professor W. D. Dover, Professor of Mechanical Engineering, was appointed to the newly established Shell Chair of Mechanical Engineering;

Professor G. T. Martin, Professor of Egyptology by conferred title at UCL, was appointed to the Edwards Chair of Egyptology;

Dr G. D. Price, Royal Society Research Fellow in the Department of Geological Sciences, was appointed to the Readership in Mineral Physics which is jointly tenable at Birkbeck College and UCL.

The University of London approved the conferment of the following titles of Professor:

Dr J. R. F. Arthur	Soil Mechanics
Mr J. S. Clifton	Medical Physics
Dr H. D. Clout	Geography
Mr I. H. Dennis	English Law
Professor M. Glickstein	Neuroscience
Dr N. Harris	Development Planning
Dr M. J. G. Harrison	Clinical Neurology
Dr A. R. Lieberman	Anatomy
Dr G. T. Martin	Egyptology
Dr J. O'Keefe	Cognitive Neuroscience
Dr C. Vita-Finzi	Geography
Dr C. Wilkin	Physics

The title of Reader was conferred by the University upon the following:

Dr J. M. Anderson	Pure Mathematics
Dr M. J. Budd	Philosophy
Dr R. S. Cole	Electronic Engineering
Dr Anne Cooke	Experimental Immunology
Dr M. Hoare	Biochemical Engineering
Dr J. S. Hyams	Cell Biology
Dr D. R. Katz	Experimental Pathology
Dr G. A. W. Rook	Microbiology
Dr A. Todd-Pokropek	Medical Physics
Dr W. D. Trotter	English

The Faculty Boards elected the following Deans and the Deans-elect nominated the following Vice-Deans for the session 1988-89:

Faculty	*Dean*	*Vice-Dean(s)*
Arts	Professor S. Greenbaum	Professor D. R. Harris Professor M. M. Willcock
Laws	Professor J. L. Jowell	Professor R. W. Rideout

Faculty (cont.)	*Dean (cont.)*	*Vice-Dean(s) (cont.)*
Science	Professor R. J. H. Clark	Professor E. A. Power
Engineering	Professor W. R. Eatock Taylor	Professor I. A. Harley
Environmental Studies	Professor W. T. Bordass	Mr B. B. Nutt
Medical Sciences	Professor A. P. Mathias	Professor L. Wolpert
Clinical Sciences	Mr W. W. Slack	Professor A. G. Alexander Professor J. R. Pattison

The following new appointments to Headship of Department were made by Council:

Professor D. B. Gomperts (Experimental Pathology);
Professor P. H. W. Butterworth (Biochemistry);
Professor R. C. Woledge (Physiology);
Professor J. E. Midwinter (Electronic and Electrical Engineering);
Professor P. G. Isaacson (Histopathology);
Professor G. T. Martin (Egyptology);
Professor R. Blundell (Economics);
Professor Bernard Cohen (Director of the Slade School of Fine Art);
Dr I. C. Glover (Prehistoric Archaeology);
Professor Ted Honderich (Philosophy).

A number of appointments to College offices were made:

Professor R. J. Audley, Dean of the Faculty of Science, and Professor M. M. Willcock, Dean of the Faculty of Arts, were appointed to Vice-Provostships with effect from 1 April 1988 and 1 October 1988, respectively;

Professor J. McN. Dodgson, Professor of English, was appointed Dean of Students in succession to Professor T. C. Griffith;

Mr F. Cooves, formerly Security Officer with responsibility for uniformed staff, was appointed College Security Officer in succession to Mr M. J. Oliver;

Mr G. G. Piper, Director of Estates and Technical Services, Tower Hamlets Health Authority, was appointed Bursar in succession to Mr E. Williamson;

Mr J. Tierney, Clerk of Works, was appointed Building Supervisor to succeed Mr C. Bishop;

in succession to Professor R. Wilson, who had been appointed Head of the Department of Physics and Astronomy, Dr D. McNally was appointed Director of the University of London Observatory at Mill Hill;

Mr P. J. Deer, Principal Personnel Officer, was appointed Assistant Secretary (Personnel) with effect from 1 August 1988 in succession to Mr E. W. Bridger;

Dr D. G. Jameson was appointed Director of the Audio Visual Centre and Mr R. R. Phillips Director of the Photographic and Illustration Centre;

Dr D. A. Oakley (Department of Psychology) was appointed Schools Liaison Officer with effect from 1 October 1988 in succession to Dr P. A. Wood.

The College made a number of distinguished appointments to Visiting Professorships as follows:

Dr C. P. Summerhayes, Manager of the Stratigraphy Branch at the BP Research Centre at Sunbury (Geological Sciences);

Professor D. C. Imrie, Head of the Department of Physics at Brunel University (Physics and Astronomy);

Dr N. H. Lipman, special merit Senior Principal Scientific Officer at the Rutherford Appleton Laboratory, Harwell, and Head of the Energy Research Group (Mechanical Engineering);

Dr G. Manning, formerly Director of the Rutherford Appleton Laboratory, now Chairman of Active Memory Technology (Physics and Astronomy);

Mr P. Martin, a distinguished solicitor with a leading practice in Air Law (Laws);

Dr A. Holt, Director of the Operational Research Section of the DHSS (Statistical Science);

Professor A. K. Jeffery, Professor of Orthopaedic Surgery at the University of Otago Medical School, New Zealand (Institute of Orthopaedics);

Professor D. E. N. Davies, Vice-Chancellor of Loughborough University and formerly Head of the Department of Electronic and Electrical Engineering (Electronic and Electrical Engineering);

Dr W. J. R. Curtis, Sir Banister Fletcher Visiting Lecturer and a distinguished writer on architecture (Bartlett School of Architecture and Planning);

Professor Yuri Medvedkov, distinguished Soviet urban geographer (Geography);

Professor C. Hilsum, Director of Research at GEC (Physics and Astronomy).

RETIREMENTS

Mr E. W. Bridger

The College lost one of its best-known and most highly regarded members of staff when Mr E. W. Bridger, Senior Assistant Secretary (Personnel), retired on 30 September 1988. Bill Bridger's post-war career spanned forty years and fell neatly into two halves. The first part of his career was spent in industry, most notably with Osram-GEC where he eventually became Chief Personnel Officer. Then in September 1968 he joined the College as Assistant Secretary (Personnel) to take on the task of establishing the Personnel Department.

Over the next twenty years he witnessed a great many changes including the transfer in 1978 of the Salaries, Wages and Superannuation section to the Personnel Department and an enormous growth in the size of the College. During this time he served on many College committees and was also much in demand to serve on staffing committees of all kinds at the University and at national level; but whether in formal meetings or in informal discussions his expertise and sound advice were always much valued. In 1985 he was redesignated Senior Assistant Secretary (Personnel) in recognition of the high regard in which he was held in the field of personnel management in universities.

Inevitably his depth of expertise, advice and good humour will be missed throughout the College.

Mr S. J. Hallett

Mr Sid Hallett, who retired on 30 September 1988, joined the College in 1968 and worked for more than twenty years in the Printing Section of what is now the Services Department, becoming Printing Manager in 1981.

Besides his widespread contact with all departments of the College, via the production of their printed material, Sid was keenly interested and involved in student affairs; the UCL Rugby Club and the student residence at Coliseum Terrace, in particular, benefited from his enthusiasm, loyalty and sense of humour.

Mrs Minnie Kasher

Mrs Minnie Kasher who retired on 31 July 1988 was secretary to six successive Deans of Students from 1972-1988. She was their faithful and inspiring guide and support; but more, she was the shrewd and sympathetic personality of the Dean's office. It was to Minnie that many a student problem of welfare or conduct was first presented, and her tact, her sense of proportion, and her kindly sense of humour were the invaluable and ready pointers to many a happy solution and to the consolation of those whose difficulties were persistent.

Her loyalty to the Dean of Students department and her resolute concern for the good name of UCL have been admired by all who have worked with her; her love of our students and her deep interest in their problems, hardships, survivals, scrapes and successes, have been felt and warmly appreciated by the alumni of eighteen successive years. Her retirement presents us with a challenge to try to equal her achievement; we could not hope to better it.

Minnie's retirement was marked by a dinner in her honour given by the past and present Deans of Students of UCL, at which her husband Philip was her guest and her son Derek was their chauffeur, and by presentations by friends and colleagues in College and in the Students' Union.

Professor R. P. Meijer

Reinder Meijer, who retired on 30 September 1988, had held the Chair of Dutch Language and Literature in the University of London since 1971, first at Bedford College and from 1983 at UCL.

After graduating from the University of Amsterdam in 1950, he worked for twenty years at Melbourne University, as Lecturer (1951-59), Senior Lecturer (1959-66) and finally Reader (1966-71) in Dutch. His Melbourne doctoral thesis (1958) was a pioneering study of the twentieth-century poet Achterberg. His *Literature of the Low Countries*, of which the first edition appeared in 1971, has become the standard survey in English.

Professor Meijer's long-standing concern for the promotion of his subject abroad is reflected in his vice-chairmanship of the International Association for Dutch Studies (1972-81) and chairmanship of the Association of Dutch Language Teachers in Great Britain (1977-85).

The Dutch Department's move to UCL has led to expanded possibilities for BA and MA combinations including Dutch, and to the establishment of a Centre for Low Countries Studies for the co-ordination of teaching and research in the fields of language, literature, history and art history. Professor Meijer contributed importantly to both these developments and both may be regarded as, in part, his legacies.

Mr M. J. Oliver

Mr Michael Oliver first came to the College in 1960 as a Senior Assistant in the College Office, where he worked under Mr R. Gregory and subsequently succeeded him in being responsible for this area which brought him into contact with a wide circle of people within and outside the College.

Following the reorganisation of the College Administration in 1978, Mike took up a major new challenge and became responsible for the Security Office which was concerned with portering and the use of College premises for functions and other activities, as well as more mainstream security matters.

It is greatly to his credit that the activities of this Office became an established part of College life without major resentment or upset on the part of either staff or students. In this regard, Mike's long-standing interest in sport, especially cricket and football, stood him in good stead, and he took a special interest in student affairs and in Shenley, serving on the Shenley Grounds Committee for many years.

It is with great sadness that we report that Mr Oliver died shortly before this Report was published.

Mr E. Williamson

Mr Edward Williamson, who retired from the post of Bursar on 30 September 1988, came to UCL in 1973 from the Civil Service, having worked in the Laboratory Investigation Unit and for the University Grants Committee. He had previously specialised as an architect and planner in the development and planning of universities in the Third World.

He arrived at UCL in time to manage the massive programme of reconstruction involved in the project to merge the University College and Royal Free Hospital Medical Schools for which the UGC had promised funding in 1972. However, the country's continuing economic problems in the mid-1970s meant that the possibility of undertaking this vast project gradually receded and eventually disappeared.

Under Edward Williamson's guidance the Bursar's Department was restructured to fulfil its main role during the 1980s of maintaining and adapting the existing estate to meet changing circumstances within steadily diminishing resources.

RESIGNATIONS

Professor D. E. N. Davies

Professor D. E. N. Davies (familiarly referred to as Den) resigned in March 1988 as Pender Professor and Head of the Department of Electronic and Electrical Engineering. This was to allow him to take up the office of Vice-Chancellor at Loughborough University of Technology.

Den took a degree in Electrical Engineering at the University of Birmingham, where he subsequently joined the academic staff. Whilst at Birmingham he spent three years as a part-time Honorary Senior Principal Scientific Officer at the Royal? Radar Establishment (now RSRE) under a staff interchange scheme.

In 1967 he joined the research department of British Railways Board as an Assistant Director, with responsibilities for communication, signalling and automation. During part of his period with British Rail he also held a part-time Visiting Industrial Chair of Electrical Engineering at Loughborough University. This was surely a timely forerunner to his return as Vice-Chancellor!

In 1971 he was appointed to a Chair at UCL. During his time at the College he has led many research programmes ranging over a wide field of microwave antennas, radar, optical fibres and fibre optic sensors. He has published over one hundred papers in these fields, and has been awarded the Rank Prize for Optoelectronics, and medals from the Institute of Measurement and Control, the (American) Institution of Electronic and Electrical Engineers as well as the Faraday Medal of the Institution of Electrical Engineers. In 1984 he was awarded a Scientific Medal from the IEEE and one of the 1884 Centennial Medals that were awarded worldwide.

Den Davies was elected as Fellow of the Fellowship of Engineering in 1978 and to the Royal Society in 1984.

His seventeen years in the Department of Electronic and Electrical Engineering, with Professors Cullen and Ash, have been a period of very considerable expansion. The Department's industrial involvement has increased dramatically, resulting in the current funding by industry of no less than five of the twenty-seven academic staff. Undergraduate intake has also increased over the period, particularly following the initiative with the Government's 'SHIFT' scheme, to a present level of eighty students.

Den was also instrumental in establishing with a grant from the Wolfson Foundation the Wolfson Unit for Optical Fibre Instrumentation Systems, which acts as an industrial liaison unit to assist in the transfer of the latest techniques from the Department's Optical Fibre Systems research laboratory.

Den was appointed to the Pender Chair and Headship of the Department in 1985, and as a Vice-Provost of the College in 1986. His calm demeanour and sound council are much missed throughout the College.

Mr A. A. Peters

Mr. A. A. (Tony) Peters resigned from his post as Assistant Bursar in February 1988 to take up the post of Estates Bursar at Queen Mary College.

Tony joined the UCL Academic Services Unit in August 1982 in charge of Overseas Contracts where his considerable experience in Asia was most valuable. He also acted as Administrator of the Development Planning Unit for three years.

He transferred to the Bursar's Department in January 1986 and took on the management of The University College and Middlesex School of Medicine resiting programme. This multi-million pound project was a massive task designed to move all the pre-clinical teaching from the Middlesex site to the Gower Street site in a work programme of only twenty-one months. By his energy and powers of persuasion he achieved this aim. In between he somehow found time to be Chairman of the Administrative and Library Staffs Association (ALSA) and to perform for the Chamber Music Club.

PUBLICATIONS* AND EXHIBITIONS

BY MEMBERS OF COLLEGE DEPARTMENTS
1 AUGUST 1987 — 31 JULY 1988

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SLADE SCHOOL OF FINE ART

AIKEN, JOHN, *Solo Exhibitions:*

'Ocean's Edge' New Sculpture, Douglas Hyde Gallery, Dublin, June 1988.

Drawings, Oliver Dowling Gallery, Dublin, June 1988.

Group Exhibitions:

Un Presente Continuo, Studio Exhibition, London, February 1988.

Un Presente Coninuo, Sala 1, Rome, March 1988.

BARLOW, PHYLLIDA, *Solo Exhibitions:*

'Oracle', Kettle's Yard Residency, July/August 1987.

'Expanse', Unit 7 Gallery, Peckham, October/November 1987.

'Storm', Studio Installation, February 1988.

Group Exhibition:

Small Works on Tow, Touring East Anglia Exhibition, from August 1988.

Articles/Books:

Cambridge Evening News - on 'Oracle', August 1987.

Sunday Telegraph - on Kettle's Yard, August 1987.

Time Out - on 'Expanse', November 1987.

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BOWEN, RON, *Solo Exhibitions:*

'Et Creve d'Amour', Dance & Theatre Corporation, London, 1988.

'Lilith', Dance & Theatre Corporation, London, 1988.

Group Exhibitions:

'Les Sillons de l'Homme', Musee du Jardin des Plantes, Paris, 1988.

Commission:

New Atlas Murals, London, 1988.

CAMP, JEFFREY, *Solo Exhibitions:*

Retrospective, Paintings 1949-1988, Royal Albert Memorial Museum, Exeter, June/July 1988.

The Self Portrait - A Modern View, Artiste Gallery, Bath and tour, 1987.

Nigel Greenwood Gallery, Bath Art Fair, 1988.

The Library Gallery, University of Surrey, 1988.

Group Exhibitions:
'Land, Sea, Air', Herbert Read Gallery, September 1987.
In Flight, Brighton Polytechnic Gallery, March 1988.
South Bank Exhibition, Royal Festival Hall, 1987.
Royal Academy Summer Exhibition, 1988.
Commission:
Imperial War Museum, London, 1987.

DAGLISH, PETER, *Solo Exhibitions:*
'The Kiss' Lino Cuts and Lithographs, Ali Dada Gallery, Lahore, Pakistan, December 1987.
'Lady Lurex' and other works, Rohtas Gallery, Islamabad, Pakistan, December 1987.
Group Exhibitions:
Fourth Humberside Print Show, Hull, 1987.
'Invitation Show', Goldsmiths Gallery, London, April 1988.

DOS SANTOS, BARTOLOMEU, *Solo Exhibitions:*
'The Winter Journey', Graves Art Gallery, Sheffield, October/November 1987.
'Homenaje a Pessoa', Espacio Abierto Gallery, Granada, Spain, March/April 1988.
Group Exhibitions:
Open Print Exhibition, Bankside Gallery, London, March/April 1988.
6th Bienal de Cerveira, Cerveira, Portugal, July/August 1987.
1st Print Bienal, Amadora, Portugal, 1988.
'Tiles for Architecture', Ratton Gallery, Lisbon, October/November.
3rd International Print Bienal, Taipei, Taiwan, 1987.
'Kunst zonder Grenzen', Veghel, Holland, April/March 1988.

HEAD, TIM, *Solo Exhibitions:*
Marlene Eleini Gallery, London, February 1988.
Anthony Reynolds Gallery, London, March 1988.
Torch Gallery, Amsterdam, April 1988.
Group Exhibitions:
'On a Plate', Serpentine Gallery, London, 1987.
'State of the Nation', Herbert Art Gallery and Museum, Coventry, 1987.
Galerie Wittenbrink, Munich, 1987.
'Mysterious Coincidences', The Photographers Gallery, London and International Tour, 1987-88.
'The British Picture', L.A. Louver, Venice, California, 1988.
'Playing for Real', Southampton City Art Gallery and National Tour, 1988.
Articles/Books:
'Tim Head' - Anthony Reynolds Gallery, 1988.
'The British Picture' - L.A. Louver, 1988.

HILLIARD, JOHN, *Solo Exhibitions:*
Galerie Durand-Dessert, Paris, November 1987.
Bess Cutler Gallery, New York, February 1988.
Group Exhibitions:
'The Other Body', Photographic Resource Center, Boston University, September 1987.
'Photography On The Edge', Haggerty Museum of Art, Milwaukee, March 1988.
'Starlit Waters', Tate Gallery, Liverpool, May 1988.
'Das Gläserne U-Boot', Tabakfabrik, Krems/Stein, June 1988.
Articles/Books:
Camera Austria, Graz, Autumn 1987.

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Artforum - Review, May 1988.
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HOYLAND, JOHN, *Solo Exhibitions:*
Recent Paintings and Monotypes, Lever/Meyerson Gallery, New York, October/November 1987.
Recent Paintings and Ceramics, Erica Meyrouich Gallery, San Francisco, May/June 1988.
Group Exhibitions:
Three British Painters, Northern Centre for Contemporary Art, Sunderland, April/May 1988.

JARAY, TESS, *Solo Exhibitions:*
'Paintings and Drawings from the Eighties', Serpentine Gallery, 1988.
Commission:
Design floor for Centenary Square, Birmingham, 1988.

JONES, STANLEY, *Group Exhibitions:*
'8x8', Curwen Gallery, December 1987.
National Print Exhibition, West of England Academy, Bristol, 1988.
Articles/Books:
'Lasting Impressions' - Alexandria Press, 1988.

LEVERETT, DAVID, *Solo Exhibition:*
Sacred Gardens, Redfern Gallery, London, November 1988.
Group Exhibitions:
'Four Artists', Redfern Gallery, London, August 1988.
British Art 87, Smiths Gallery, September 1987.
Royal Academy Summer Show, Royal Academy, London, July 1988.
Slade Prints, City Airport, London, 1988.

LOMAX, TOM, *Group Exhibitions:*
Small Works, Patricia Knight Gallery, December/January 1987-88.
Memorial Works, St. Gregory's Crypt, February/March 1988.
Books/Articles:
Artist and Illustrator, September and October 1987.

McFADYEN, JOCK, *Solo Exhibitions:*
Ferens Gallery, Hull, October/November 1987.
Arts Council Gallery, Belfast, January/February 1988.
Camden Arts Centre, London, February/March 1988.
Group Exhibitions:
'State of the Nation', Herbert Gallery, Coventry, August 1987.
'Self Portrait', Artiste Bath and tour, from September 1987.
TV/Radio Broadcasts:
BBC2 - 'Review' feature on show at Camden Arts Centre, February 1988.
BBC1 - 'Review Plus', March 1988.
LWT - 'South of Watford', Two London Painters, March 1988.
Radio 4 - 'Kaleidoscope' feature on show at Camden Arts Centre, March 1988.

MOON, MICK, *Solo Exhibitions:*
Pace Prints, New York, November 1987.
Kass Meridien Gallery, Chicago, March 1988.

NEAGU, PAUL, *Solo Exhibitions:*

'Nine Catalytic Stations' Glyn Vivian Gallery, Swansea, August/September 1987.
Newcastle Polytechnic Gallery, January/February 1988.
R. Demarco Gallery, Edinburgh, March/April 1988.
'Artspace' Gallery, Aberdeen, June/July 1988.

Group Exhibitions:

R. Demarco Gallery in Saraycvo, Yugoslavia, February 1988.
Chicago Art Fair, Curwen Gallery, May 1988.
Royal Academy Summer Show, May/August 1988.
Tate Gallery - Summer Show 'new acquisition', July/September 1988.
R. Demarco Gallery, Festival Show, Edinburgh, August/September 1988.

Articles/Books:

Major Catalogue - 'Nine Catalytic Stations' - Scottish Sculpture Trust.
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REGO, PAULA, *Solo Exhibition:*

Retrospective, Gulbenkian Foundation, Lisbon, May/June 1988.
Retrospective, Casa Serralues, Oporto, June/July 1988.

Group Exhibitions:

Works on Paper by Contemporary Artists, Malborough Fine Art, March/April 1988.
Narrative Painting, Castlefield Gallery, Manchester, May 1988.
Cries and Whispers, British Council Show touring Australia and New Zealand.

SNOW, PETER, *Group Exhibitions:*

The Sunday Times Landscape Watercolour Exhibition, The Mall Galleries, April 1988.
Pictures, Curwen Gallery, London, December 1987.
Celebration of London (Tourist Board), Smiths Galleries, London, May 1988.
Royal Academy Summer Show, Royal Academy, May/August 1988.
Mixed Show, London Airport, May/June 1988.
Theatre Designers, Marina Henderson Gallery, London, December 1987.

SUTTON, PHILIP, *Solo Exhibition:*

Exhibition of paintings and woodcuts, Galerie Joel Salaun, Paris, June 1988.

UGLOW, EUAN, *Group Exhibition:*

Opening Exhibition, Robertson Mort Gallery, Bedford, December 1987.

VOLLEY, JO, *Group Exhibitions:*

Day Book, Smiths Gallery, December 1987.
Opening Exhibition, Robertson Mort Gallery, December 1987.
Small is Beautiful, Angela Flowers Gallery, December 1987.
Day Book Exhibition, Brighton, 1988.

Commissions:

Portrait of Claire Obermann (actress) 1987; portrait of Professor Millen (UCL) 1988; portrait of Celia Johnson (posthumous) 1988.

WELSBY, CHRIS, *Solo Exhibition:*

'Boundaries of Landscape', National Film Theatre, July 1988.
Art in Cinema series, National Film Theatre, July 1988.
Premier of new film "Sky Light", National Film Theatre, July 1988.

Articles/Books:

Art Monthly - review of "Sky Light", August issue.
BFI Monthly Film Bulletin - review of "Sky Light", August issue.

WILDING, ALISON, *Solo Exhibitions:*

Projects Series, Museum of Modern Art, New York, 1987-88.

Gallerie Wanda Reiff, Netherlands, 1988.

Group Exhibitions:

Atlantic Sculpture, Art Centre, College of Design, Pasadena, California, 1987.

'Viewpoint - British Art of the 80's', Museum of Modern Art, Musees Royaux de Beaux Arts de Belgique, Brussels, 1987.

Edinburgh International: 'Reason and Emotion in Contemporary Art', Royal Scottish Academy, Edinburgh, 1987-88.

'Lead', Hirschl and Adler Modern Art, New York, 1987-88.

'The Literate Link', Asher Faure, Los Angeles, 1988.

'All That Matters', Art Gallery of Windsor, touring 1988.

'Sculpture, an International Art', Tate Gallery, Liverpool, 1988.

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BBC2 - Alison Wilding (as part of British Art week) May 1988.

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APPENDIX I

NUMBERS OF STUDENTS 1987-88*

	Under-graduate	*Post-graduate*	*Total*
Faculty of Arts	1,386 (46)	386 (159)	1,772 (205)
Department of Economics	383 (1)	27 (7)	410 (8)
Slade School of Fine Art	94 (0)	100 (0)	194 (0)
Institute of Archaeology	144 (6)	108 (45)	252 (51)
	2,007 (53)	621 (211)	2,628 (264)
Faculty of Science	1,806 (21)	† 770 (203)	2,576 (224)
Faculty of Medical Sciences ‡	460 (3)	0 (0)	460 (3)
Faculty of Engineering	513 (4)	320 (101)	833 (105)
Faculty of Laws	302 (13)	152 (40)	454 (53)
Faculty of Environmental Studies	206 (2)	254 (61)	460 (63)
Faculty of Clinical Sciences	780 (0)	166 (93)	946 (93)
	6,074 (96)	§ 2,283 (709)	8,357 (805)

* As at 31st December, 1987.

† This figure includes 107 full-time and 48 part-time students working in the College Faculty of Medical Sciences who were registered in the University Faculty of Science.

‡ Non-Clinical Medical and Dental students only (excluding intercalating B.Sc. students who are included in Science).

§ Of this number, 1,332 full-time students and 689 part-time students were registered for higher degrees of the University of London; the remainder were either working for higher diplomas of the University or of the College, or for higher degrees of other universities, or were engaged in research work, or were attending postgraduate lecture courses.

The figures in brackets indicate the number of part-time students included under each heading.

APPENDIX II

UNIVERSITY FIRST DEGREE AND DIPLOMA AWARDS

1 OCTOBER 1987 — 30 SEPTEMBER 1988

This information was unavailable at the time of going to press, it will be included, however, in the Annual Report for 1988-89.

APPENDIX III

UNIVERSITY HIGHER DEGREE AND HIGHER DIPLOMA AWARDS

1 OCTOBER 1987 — 30 SEPTEMBER 1988

FACULTY OF ARTS

DLit Henry Sidney Smith.

PhD *Institute of Archaeology:* Asombang Neb'ane Raymond, Vesta Curtis, Steven Dwight Nicklas, William Bruce Maxwell Welsh. *Classical Archaeology:* Alexandre Mazarakis Ainian. *English Lanuage and Literature:* Elaine Yee Lin Ho, Mary Ellen Hubbard, Kate Lilley, John Graham Saunders. *Geography:* Anthony David Murray Phillips. *German:* Claire Cohen, Brigid Anne Haines, Marlene Adeline Schiwy. *Greek and Latin:* Georgina Helen Drummond Robinson. *History:* John Dunne, Geoffrey Egan, Jennifer Margaret Gould, Deri Pode Miles, Luiz Carlos Soares. *History of Art:* Ellen Louise Ramsay. *Philosophy:* Andrew Paul Lewis. *Phonetics and Liguistics:* Sophia Augustina Adjaye, Mohamed Benrabah, Regina Blass, Hale Oztekin, Timothy John Pooley, James Patrick Scanlan, Jill Taylor, Mary McGee Wood. (29)

MPhil *Bartlett School of Architecture and Planning:* Rosalind Gwyneth Doran, Margaret Handovsky, Solomon Muteyiwa Majasi, Lucy Jean Nicol, Leyinu Torkia Nwikpo, Patrick John O'Leary, Miranda Pearce, Marie Patricia Phillip, Monika Maria Wolf. *English Language and Literature:* Pilli Samuel Jayakumar. *German:* Elfriede De Franchis. *Greek and Latin:* Cristiana Hill, Lynne Robinson. *School of Library, Archive and Information Studies:* Samuel Kwasi Agyei. *Philosophy:* Stephen Wayne Hodgson, Simon Jonah Evnine. *Scandinavian Studies:* Helen Charmian Carron. *Spanish and Latin American Studies:* Amanda Edelmira Phillimore. (18)

MA *Anglo-American Literary Relations:* Helen Catherine Hayward, Barbara Ann Kean, Suzanne Kehde, Jennifer Amy Levine, Sylvia Constance Otten, Gary Trevor Smith. *Archaeology:* Julia Christine Cotterill, Susan Marie Cronkite, Susan Elizabeth Mary Dalloe, Guy Martyn Thorold Huchet De La Bedoyere, Mercy Elisabeth Josephine Feldbrugge, Susan Beverly Grundy, Geoffrey Charles Kavanagh, Anthony Keith Lowe, Steven Boyd Mertens, Maria Pilar Munoz de Miguel, Eleni Papadimitriou, Tessa Jane Rickards, Maria Luisa Schleidt, Alan Frederic Ward*, Helen Twigs Way. *Archive Studies:* David Robert Biggs, Elizabeth Sarah Greenwood, Robin Patrick Jenkins, Angela Carolyn Kenny, Alison Mary Turton. *Area Studies:* Sarah Avalon Austin, Judith Adriana Chernajovsky, Maria Costa Pinto-Scheppach, Angela Cuevas De Dolmetsch, Richard Philip Derecki, Marina Consuelo Jimenez, Melanie Anne Niven, Miriam Afi Nunekpeku, Dainyo Ibinabo Obunge, Antonio Ortiz Mena Lopez Negrete, Natascha Scott Stokes, Yuko Takagi, Andrew Alexander Thomson, Mary Jane Watson, Ivan Claudio Yudilevich. *Classics:* Gregor William

Anderson, Robin Stacey Lorsch, Glyn Francis Loveday, Lorna Marcelle Frances Martin, Joseph Gerard Spooner*, Sarah Wilkinson*, David Alan Wright. *English Language (Modern):* Andrew Scott Cairncross, Protul Chandra Deb, Rose Ndim Tosam. *Field and Analytical Techniques in Archaeology:* Geraldine Baldwin, Henry Rowland Timothy Compton, Ian Melville Greig, Basil Anthony Reid, Jon Seligman. *German:* Charlotte Irene Annette Nolte. *Hebrew and Jewish Studies:* Israelith Sheila Lassman, Christine Thoret, Orit Widerker. *History:* Nicolas Coureas. *Library and Information Studies:* Imad Adbul Munhem Bachir, Clare Charlotte Bebbington, Jacqueline Gillian Brooks, Carol Brown, Susan Rose Clark, John Anthony Dawson, Gabriele Drescher, Edward Antony Maitland Ebden, Haji Wan Mamat Haji Wan Ali, Linda Jayne Humphreys*, Nada Muetasem Itani, Nicolas Christopher Joint, Beverley Kemp, Matilda Josephine Sylvester Kuzilwa, Penelope Ruth Leach, Andrew Charles Mark MacEwan, Louise Catherine Manners, Cyprian Mamadi Marah, Farideh Moussavi, Richard Ovenden*, Sarah Elizabeth Roberts, Diana Mary Short, Jamal Mahmoud Tabbara, Rachel Anne Willatt*, Michael Lindsay Wilson, Helen Margaret Wood. *Linguistics:* El Abbas Ben Mamoun, Redouan El Ayadi, Marjolein Groefsema, Donald Wei Hsiung, Rachid Lahgazi Alaoui, Mireia Llinas Grau. *Museum Studies:* Sofia Aliferi, Rosemary Andrade, Matthew Foster Bodley, Andrea Bernice Easey, Rosemary Helen Everett, Rina Genussov, Suzanna Mary Rose Harborne, Elspeth McEachern, Marianne Teo Moey, Helen Lesley Ward, Yumiko Yoshida. *Overseas Archive Studies:* Bekir Kemal Ataman, Barbara Hope Bosustow, Gracelyn Theodora Cassell, Jill Louise Geber, Rahani Jamil, Margaret Wangui Githiga Mawangi, Nomsa Sikhondze. *Phonetics:* Juana Del Pino Garcia Martin, Shigeko Shinohara, Shigehiko Tanaka*. *Romance Languages and Literatures:* Maria Alberta Molinari. *Scandinavian Studies:* Sara Helen Jan*. (116)

University Postgraduate Diplomas: Fine Art: 49 Linguistics: 4
*Awarded Mark of Distinction

FACULTY OF ECONOMICS

PhD *Economics:* Olimpio Jose De Arroxelas Galvao, Desmond James McNeill, Urmila Mukherjee. *History:* Paul Joseph Kelly. (4)

MSc *Urban Development Planning:* Ahmed Mohd Al Thani, Emmanuel Obiorah Allanah, Carmen Elisa Alvarez Alvarez, Bugalo Alvin Chilume, Sangapala Arachchige Don Edward Leonard Dissanayake, Lina El-Hallak, Fung Siu Man, Adebayo Kelekun, Bahir Laattoe*, Henry Mang'Ong'O Lumbasio, William Ng'Andu, Anne Wanjiku Grace Nyachae, Benedict Ebosetale Omiyi, Benedict Onyeche, Maharage Christopher Nihal Perera, Bellington Siame, Mncedisi Mvuyo Jason Sishuba, Charles Arthur Small, Maria Joao Da Graca Soares, Ian Douglas Trites, Max Velasquez Matute, Phuntsho Wangdi, Gavin William Eric Wyngaard. (23)

*Awarded Mark of Distinction

FACULTY OF LAWS

PhD Peter Luxton, Abimbola Adeleke Olowofoyeku, Campbell Alan McLachlan. (3)

LLM Taha Ali Abdi, William Kwasi Aboah, Omolara Ademola, Yetunde Adesola Adesanya, David Keith Alderson, Keith Norman Anderson, Aryon Paul Apostolis, Georgina Appah-Sampong, Kevin John Arnold, Folashade Abosede Babalola, Matilde Betti*, Katie Jane Bradford*, Eileen Bye, Matthew Chan, Peter Cheung Kam Fai, Seok Yam Chew, Michael Chi On Chik, Chua Eng Hui, Chung Byung-Suk, Peter Guy Clement, Petrus Compton, Timothy Paul Conti, Ronald Valentine D'Cruz, Rotimi Disu, Paul Robert Edgar Double, Christian John Farrugia, Anthony Thomas Fenech, Keith Leslie Florence, Mary Isobel French, Kristien Geeurickx, Rory Christopher Augustine Gogarty, Raymond Gwee Tiong Hai, Diana Theresa Harrison, David Patrick Hartley, Kamal Halili Hassan, Claudia Luce Hatem*, Joan Elizabeth Himan, Doreen Angharad Hughes*, Murray Paul Hundleby, Hazel Thandi Hurworth, Kaisha Penelope Daniellle Ince, Robyn Kim Johansson, Richard Andrew Kareqyesa, Nana Aqyekum Kessie, Michael John Knowles*, Doyin Margaret Lawunmi, Lee Eu Kong, Lee Kim Kee, Guy Lefebvre, Lim Joo Toon*, Lim Ming Wah*, Liu Suk Yi, Jasbir Loyal, Robert John McPeake*, Christopher Joseph Madden, Karim Manji, Maria Margaronis, Evelyn Nicola Phyllis Mason, June Meader, Enrique Raul Mitjans, John Araali Mulliindwa, Roger Poindexter Munger, Mbong Elvira Ndoma-Egba, Jorge Auguasto Santiago Das Neves*, Clementine Awu Knweta, Henrietta Obi Nwarache, Donald Chris Nyakairu, Michael Adewale Olaseinde, Ayodele Victoria Oyajobi*, Shereen Pandit*, Terence Leslie Payn, Bernardo De Abbeville Paz-Pena de Vire, Ioannis G. Pontikos, Poon Shiu Chor, Yasmin Qureshi, Fatima Raheem*, Sheela Rubina Rahman, Christos Raptis, Brian Walter Rendell*, Glenn Noel Robinson, Afolake Olufunmilayo Sasegbon, Larry Gordon Schafer, Shaked Shani, Mbambo Mulasikwanda Sianga, Christobel Ann Sloan, Stamatios Stamopoulaos, Harold Stromeyer, Tan Puay Boon, Elisabeth Ann Teo Poh Lian, Patricia Annette Tuitt, Gerhard Henry Anthony Wallbank, Johnson Hung-Shing Wang, Andrew John White, Wong Cheau Pyng, Gladys Vuyisile Yalala, Alicia Yee Meng Yin. (96)

University Postgraduate Diplomas: Diploma in Shipping Law (5)
Diploma in Law (1)

*Awarded a Mark of Merit

FACULTY OF SCIENCE

DSc Robin James Rowbury. (1)

PhD *Anatomy and Developmental Biology:* Lesley Ann Eadie, Alan Entwistle, Jane Virginia Evers, Teresa Jane Fisher, Hairudin Bin Harun, Candace Juliet Serena Hassall, Carla Louise Mills, Helen Elizabeth Moss, Jennifer Joan Isabel Warland. *Anthropology:* Achsah Henderson Carrier, Ainsley Leas Dalli, Sean

Paul Alexander Blaney, Stephen Francis Ferrari, Victoria Anne Goddard, Katherine Louise Hann, Christopher Denis Knight, Ayse Nuket Sirman. *Institute of Archaeology:* Euphemia Photos. *Bartlett School of Architecture and Planning:* Gillian Ruth Owens, Fatiha Salah-Salah. *Biochemistry:* Mark Roger Crompton, Vernon Mark Spencer, Paul Webb, Julie Ann Woodward. *Biology:* Richard Alan Asher, Linda Margaret Baggott, Peter John Donovan, Frances Mary Gibson, Anthony Richard Green, Iain Michael Hagan, Simon William Norris Hawkins, Stephen John Hicks, Colin John Ingham, Susan John, John Paul Lowings, Mary Winifred McCaffrey, Richard John Naylor, David Benjamin Graeme Oliveira, Laurie Smith, Elizabeth Guilmette Winchester. *Chemistry:* Christine Anne Blakeley, Kevin John Bowyer, Geoffrey Duncan Brown, Anthony Arthur Deakin, Anthony Robert Holmes Goodwin, Iain George Green, Neville Richard Michael Hargreaves, Muhammed Saiful Islam, David Rupert Klug, Tracy Melvin, Susan Miller, Neil Patrick Randle, Fiona Sim, Sean Dennis Slater, Simon Michael Tomlinson, Andrew Tsotinis, Safieh Yazdi Nodooshani. *Clinical Pharmacology:* Jane Kristina Bentley. *Computer Science:* Paul William Matthewson. *Experimental Pathology:* George Nicholaou Panayotou. *Genetics and Biometry:* Fiona Rebecca Green, Peter William Harold Holland, Frances Catherine Lucibello, Shantha Kumari Mahadevaiah, Jeffrey Raymond Mann, Jane McNicholl, Leslie Robert Noble, Ian Roger Pickford, Catrin Ann Pritchard, Alexander Kai-Lik So, David Wilkinson. *Geography:* Richard Carl Lount Bray, Gillian Sarah Green, Harold Everett Gulley, Stephen Juggins, Lawrence Onwura Omoja, Sarah Jane Whatmore. *Geological Sciences:* Michael Anthony Addis, Jacqueline Anne Burnett, Hongey Chen, Maurice Kevin Edward Cooper, Philip John Howlett, Ebrahim Jasim Louri, Florence Mary Dorothea Lowry, Richard Geoffrey Perry, Peter Robert Sammonds. *Mathematics:* Riazul Haq, Fardous Mohammed Omer Toufic. *Pharmacology:* Armand Bramwell Cachelin, Mark Farrant, Najeeb Saeed Ghanem, Adrienne Penfield, Maria Monika Usowicz. *Phonetics and Linguistics:* Stuart Michael Rosen. *Physics and Astronomy:* Sarah Ann Davies, Francisco De Asis Diego Quintana, John Stuart Edmends, Nicholas John Elton, Paul Fraser Harrison, Alexis Naomi Lansbury, Suk Kwai Lau, Lysandros Lysandrou, Kim Charles Partington, Susan Margaret Robertson, Simon Richard Rosen, Christopher John Skinner, Gillian Denise Thornhill, Garath Williams. *Physiology:* Helen Marjorie Brew, Sandra Elizabeth Carpenter, Pauline Patricia Phelan, Suzanne Kim Phillips, Karl Andrew Swann, Richard Mark Woodward. *Psychology:* Peter John Ayton, Fergus Mark Innes Bolger, Eli Joseph Jaldow, Philip Hughes Richardson, Amita Sen Gupta, Philip Terry, Charles Anthony Vincent, Graham Robert Wells. (122)

MPhil *Genetics and Biometry:* Adrian Paul Kelly. *Geography:* Patrick David Coker, Mark Edwin Crundwell. *Pharmacology:* Thomas Schlich. (4)

MSc *Applied Molecular Biology and Biotechnology:* Mark Anthony Balacs, Sally Ann Baylis*, Sangita Bhatt, Stephen Bornemann, Samira Ghazi, Michelle Kay Hetherington, Robert Trevor Jepson, Kin Chow Chang*, Dorothy Anne Poublan, Simon Peter Santa Cruz*, Alison Margaret Smith, Colin Patrick Walsh, Asare Yeboah. *Archaeology:* Mark Henry Adams, Catherine Mary Rogers, Catharine

Bosier Toulmin. *Archaeometallurgy:* Marcos Andres Hunt-Ortiz. *Architecture:* Chewan Dhee Fadhlin Bte Adbullah, Nahed Mohamad Al-Ghazal, Omotayo Akintude Aluko, Godwin Onyekwelu Arah, Derek Raymond Bean, Christopher Henry Bell, David John Bishop, Paul Frank Brasier*, Irene Brefo-Sekyere, Sally Elizabeth Brooks, Indra Budiman Syamwil, Chan Man-Kai, Jonathan Howard Charnley, Cheung Tat Tong, Bor-Shuenn Chiou, Jamal Mohamad Daouk, Douglas Vieira De Aguair, Martine Greta Alphonsina De Measeneer, Neil Austin Denny, Nikolaos Dontas, John Samuel Easterling, Rona Elizabeth Easton, Martina Ernst, Richard Ganeshmoorthy, John Alexander Graham, Ismaila Halilu, Roger John Michael Harding, Adel Hussein Hazime, Thomas Hoffmann, Andrew Robert Housam, Patricio Fernando Jarrin Guillen, Pratima Joshi, Roderick Hugh Kemsley, Alexander MacIan King, Lee Moo Hiang, Michael Lyons, Gerald Francis Lywood, Panagiota Mamalaki, Diana Lucia Mayorga Sanchez, Jeremy Paul Melvin, Young Min Moon, Karin Nagel Berger, Christopher Liphangi Tayu Nasah, Laurie Neale, Paul Henry Richard James Newbold, Jose Nicco-Annan, Lisa Gabrielle Oestreicher, Anna Parkinson, Oriana Del Carmen Ponzini Garcia-Huidobro, Richard Charles John Pratt, Constantinos Protopappas, Nehad Bahig Ibrahim Ragab Fahmy, Marino Rossi, Boediono Seorasno, Alexander Von Arnim*, Madeleine Angela Wahlberg, Hilary Mary Whittaker, Wu Hoi Hung, Cherie Ann Lee Yeo. *Bioarchaeology:* Robert Dennis Belshaw, James Emmanuel Bron*. *Biochemical Engineering:* John Richard Douglas, Keith John Osborne, Francis William Roche*, Marie Elisabeth Van Santen*. *Biochemistry:* Ebun Augusta Eno-Amooquaye, Daniel Kanani Masiga, Jane Caroline Shepherd. *Biological Anthropology:* Kevin Nicholas Dawe, Ruhan Iskender, Christine Gillian Lorraine Osborne. *Chemical Research:* Peter Alexander Kirsch, David James Michael, Babak Sadigh. *Computer Science:* Mamata Bandyopadhyay, Brian Booth, Ronald Stephen Chennells, Chia Kim Heok, Paul Martin Clarke, Shazada Jamshaid Doshol, Ioannis Fertakis*, Richard Mark Forster, Timothy John Gollins, Stephen Andrew Goswell, Anne Elizabeth Greenhalgh, Roger John Guyett, David Francis Hawes*, Andrew John Hawkins, Stanley Alexander Heylin, Ho Kwok-Ki, Kyriakos Katsoulakis, Peter Kulawec, Panagiotis Lambrakis, Charalambos Liaropoulos, Chun Po Man, Barry Philip McCormick, Sankara Narayan Menon, Linda Millington, Catherine Mitsa, Adonios Monokrussos, Christopher David Needham, Marios Nicou Neophytou, Julie Margaret Porteous, Robert Paul Reilly, Jane Debra Sadr Hashemi Jane Doris Sansbury, Petar Simic, Marios Christopher Skordellis, Deborah Ann Smith, Tan Mey Lann, Maria Virvou, Wong Tai-Ching. *Conservation:* John Nevil Amos, Simon Gilbert Anstey, James Richard Patrick Cressy, Peter Jonathan Arthur Fox, Kevin David Hand, Andrew Francis Alexander Hawkins, Charles Mark Keppel Pulteney, Alison Mary Ross, Mark William Simmons, Jonathan David Stokes, Maria Teresa Szauer Umana, Sarah Christine Woolven*, Ayse Yenal. *Data Communications Networks And Distributed Systems:* Lee Chin Seng*, Petter Andreas Loken, Lum Fook Choon, Ewald Sonali Oranda Perera, David John Peters, George Savvides*, Harshadrai Ramanlal Tailor, Philip Geoffrey Tarr, Quoc Tai Tran, Glibert Sai Kin Wu. *Educational Psychology:* Rosemary Abensour, Susan Eileen Cane, Helen Kay Carmichael, Jean Chung-Cheng Chang †, Veronica Rosemary Lucia Ford, Nina Judith Gay, Michael John Haworth*, Delith Ann Jones †, Karen Leigh Jones †,

Catherine Mary Kerr†, Colin King†, Benjamin Law Cheuk Man†, Carmel Ann Littleton, Patrick John O'Loughlin, Pamela May Ottley†, Bruce Michael Brian Picton†, Susan Dorothy Rendle, Jean Nancy Wilkinson, Josephine Landreth Wilson, Yung Ka Kui. *General and Medical Microbiology:* Rawa Ahmad-Farouk Al-Ahdab, Lulu Angarita Manrique, Sami Mahmoud Bahri, Begona Cachon Gonzalez, Hella Sabina Huikeshoven, Setareh Kazemian, Carolyn Maiwald, Christos Yiangoy Potsides, Sara Zaman. *History and Philosophy of Science:* William Patrick Carmichael, Richard Peter Dixey*, Jane Elizabeth Gregory, Richard Peter Jones*, Nigel Levy, Jane Renee Macrae. *History and Philosophy of Science (History of Science):* Michael Mandelstam. *Hydrogeology:* Kim Loraine Biggs, Geoffrey Gordon Bowen, Bruce Allan Boyes, Michael Francis Davenport, Susan Jane Mary Forson, Geoffrey James Keenan, Peter Ransford Athelston Lamm, Chilisana Marobela, Linda Grant Mauluka, Robert Wilson Mutepfa, Bo Myint Win, Myo Myint, Michael James Streetly. *Marine Geology and Geophysics:* Margaret Moncreiff Fleming, Patrick Charles Joseph Hernon*, William Mark Hipkiss, Lopa Khan, Sarah Alexandra Mann, Sylvia Sarah Penelope Southcombe Parker, Ian Philip Saxby, Andrew Geoffrey Shackleton*, Thor William Sinclair*, Jonathan Mark Taylor. *Micropalaeontology:* Victor Olugbenga B. Akinbode†, Rose Michele Augousti, Bahari Md Nasib†, William John Bailey, Philippa Catherine Jeffcock†, David Charles Lambourne, Colin Taylor Noble†, Despina Pavlakelli†, Kevin Paterson Pine, Teteh Sudjaah Sulaeman, Oona Lesley West, Andrelia Wylde, Kathryn Ann Young†. *Mineralized Tissue Biology:* Janet Helen Fritton, Jayasinghe Arachchilage Premasiri Jayasinghe, Matthew Leslie Jones, Helen Mary Liversidge, Jennifer Anne Luke. *Neurological Science:* Amanda Jane Evaline Burls, Kenneth Irwin Maynard, Elroy Patrick Henshaw Weledji. *Physiology:* Fariba Soltani, Josanne Spiteri-Grech, Chang Yin. *Radiation Physics:* Alric Earle Eddison Beach, Vivienne Jones, Suzanne Marr, Collie Roy Emmanuel Miller, Claire Louise Twine. *Remote Sensing:* Saleh Mohammed Abdulla Al-Ghowinem, Eytan Amiaz, Peter Richard Kerrod Beaumont, David Andrew Bell, Christine Clark*, Angus Patrick Cross, Mowaffak Deeb, Bernard James Denore, Andrew David Diament, Simon Abaka Whittle Kay*, Balapuwaduge Jayasiri Premalal Mendis, Gerald Charles Muscat, Simon Baring Peel, Clifford Paul Richardson, Matthew George Dunkerley Shaw*, Nigel Mitchell Trodd, Jim Tsang Kam Wa*, Roxanne Diane White, *Social Anthropology:* Rosemary Paula Baillon, Deborah Golden*, Charlotte Margareta Bjornsdotter Haggren, Giuliana Beatrice Prato, Sigrid Maria Elisabet Rausing, Jonathan Mark Watson, Claudia Zeiske, *Statistics:* Neil James Fantom, Suzanne Jane Welham*. *Vertebrate Palaeontology:* Ian Stuart Woods. (269)

*Awarded Mark of Distinction
†Awarded 1986-87 but not included in the Annual Report for that year.

FACULTY OF ENGINEERING

PhD *Chemical and Biochemical Engineering:* David Hanns Michael Beiny, Renzo Di Felice, Keyvan Mehdi Djamarani, Phillip Richardson, Richard Steve Ruiz

Martinez, John Michael Woodley. *Civil and Municipal Engineering:* Apostolos Andronicou, Taiwo OlugBenga Kayode, Fasshid Sadr-Hashemi, Suresh Bhagwanji Tank, Georgios Chrissostomso Terzis. *Electronic and Electrical Engineering:* Richard John Blake, Nigel John Burton, Caroline Anne Chaloner, Milan Cvetkovic, Srboljub Cvetkovic, Didier Erasme, Nathan Joseph Gomes, John Maxwell Halley, Darran Kreit, Charles Akum Njinda, Robert Anthony Pearson, Ian Arthur Robinson, Stephen John Sheard, Paul Wheatley. *Mechanical Engineering:* Steven John Cousins, Zongzhao Fei, Hung Se Ming, Mon Don-Lin, Murat Sukru Kaya Savut, Simon Jonathan Tinker, Joel Aron Witz, Wu Guoxiong. *Medical Physics:* Babubhai Thakorbhai Patel. *Photogrammetry and Surveying:* David John Gugan, Stephen Alexander Kyle, Tono Saksono. (37)

MSc *Biochemical Engineering:* Elaine Claire Barnbrook*, Ramon Julio Carrasco Sanchez, Christopher John Arthur Finnis, David Charles Hearle*, Jonathan Charles Lee Jackson, Ashour Michael, Budhi Priyanto, Charlotte Jane Purchas, Graham David Richardsom. *Electrical Engineering:* Simon Charles Webster. *Ergonomics:* Mark Scott Andrew, Guo Jianping, Stephen Howard, Leon Melville Straker. *Information Technology:* Andrew Philip Bye, Sarah Jane Casson, Chu Victor Langheid, Ian Frederick Craig, Michael Cuthbertson, Andrew Duggan, Claire Mary Ruth Eggington, Hilary Carol Farrington, Clive Ronald David Flatau, David Stephen Fletcher, Vassilios Ioannis Giannoulis, Iain Campbell Gray, Andrew Harvey, Graham Robert Horsham, Keith George Hutton*, Diego Alfredo Jijon Ferri*, Leonidas Katsarlinos, John Patrick Michael McCarthy, Christopher Timothy Price, Duncan Peter Smith*, Stephen Andrew Westwood, Andrew John Wheeler, Rober John Woad. *Marine Engineering:* Glenn Harold Bate*, Cameron Craig, Trevor Alexander Cromie, Michael Charles Greatwich, Michael Edward Middleton*, Andrew Phillips, Adrian John Tillin. *Microwaves and Modern Optics:* Hazem Mustafa Abbas Abu-Risheh, Christopher Angrove, Jeffery Anthony Armitage, Kultar Singh Banga, David Blacknell, Ashley John Bostel, Harjinder Singh Ghuman, Stephen David Grant, Robert Hamill, Wing Kwan Liu, Nigel John Mott, Raj Kumar Rayit, David Jonathan Staniforth. *Naval Architecture:* Terry John Baldwin, Mark Peter Beck, Jonathan Mark Crawford*, Peter Alexander Curtis, Paul Fletcher, Joseph Louis-Philippe Serge Garon, Andrew Richard Hamilton, Krishan Kant, Yiu Wan Lee, Ahmed Abdel Fattah Ahmed Lofty, Muhammad Jawad Majid Malik, Mark Owen Read*, Ian Alexander Robinson, Robert Neil Weedon. *Ocean Engineering:* Charles Brian Ablett, Anne Bolstad, Christopher Patrick Dudgeon, Eamonn Francis Marrett, William Gabriel O'Brien*, Jusuf Sutomo Tsz Keung Tsang, Mark Philip Prakash Vasudevan, Renos Yannopoulos. *Photogrammetry:* Solomon Olayinka Odunlami, Andrew Grayson Robinson. *Surveying:* Fiona Bloor, Jeremy James Brown, Iain Charles Greenway*, Katherine Mary Tennant. *Transport:* Ka Leung Chan, Ian David Clark, Ioannis Ioannis Demagos*, Christios Constantinos Germanacos, Eleni Giannitsopoulou, Fernando Fontes Iunes*, Andrew Nicholas Marshall, Elly Andriani Sinaga, Ewa Stacewicz, Ernestina Swatson, Yoh Uemura. (97)

*Awarded Mark of Distinction

DSc	Jonathan Brostoff	(1)
MD	Dorothy Hanson Crawford, Gaye Lesley Henson	(2)
MS	Valerie Joan Lund	(1)
PhD	*Biology:* Andrew Brian Griffiths. *Haematology:* Roya Dadmarz, Lesley Jane Knott, Diana Lesley Wallace. *Histopathology:* Pramila Ramani, Paul Ian Richman. *Medicine:* Jane Worthington.	(7)
MPhil	*History and Philosophy of Science:* Ben Zuber Swanson.	
MSc	*Dental Public Health:* Antoinette Josephine Marie Khan, Etisiobi Mark Ndiokwelu, Amina Mustafa Abdul Rahman Hasan, Geetesh Chandrakant Solanki*, Carlos Wagner De Araujo Werner. *Nuclear Medicine:* Syed Waqar Hyder, Akhtar Ahmed Memon, Rukhsana Memon, Mohammed Khair Mohamadiyeh. *Periodontology:* Alexander Kuan Hock Chee, Ong Siok Hoon.	(11)

*Awarded Mark of Distinction

APPENDIX IV

COLLEGE DIPLOMA AND CERTIFICATE AWARDS

1 OCTOBER 1987 — 30 SEPTEMBER 1988

FACULTY OF ARTS

Diploma in Fine Art: Khehla Louis Maqhubela. (1)

Certificate of Proficiency in Phonetics: Leonardo Addis, Bruno Bouyer, Steven David Brown, Jose Antonio Cacheda, Nicola Craig, Regine Dedonder, Alessandro Di Benedetto, Maria Luisa Garcia-Lecumberri, Anastasia Georgountzou, Maria Goesche, Judith Guttmann, Gabrielle Hassid, Nicole Helfrich, Yasuko Hio, Ana Maria Hornero, Kurt Joerres, Mariko Kondo, Ho-Young Lee, Pak Keung Ng, Stamatia Pagoni, Catherine Piarrat, Montse Ragas, Jose Rosales Sequeiros, Rika Shin, Shigeko Shinohara, Annie Shone. (26)

FACULTY OF SCIENCE

Diploma in Archaeological Conservation: Philip William Clogg*. (1)

Diploma in Computer Science: Hui Min Chiang. (1)

Diploma in Conservation: John Nevil Amos, Simon Gilbert Anstey, James Richard Patrick Cressy, Peter Jonathan Arthur Fox, Kevin David Hand, Andrew Francis Alexander Hawkins, Charles Mark Keppel Pulteney, Alison Mary Ross, Mark William Simmons, Jonathan David Stokes, Maria Teresa Szauer Umana, Sarah Christine Woolven*, Ayse Yenal. (13)

Diploma in Data Communications Networks and Distributed Systems: Lee Chin Seng*, Petter Andreas Loken, Lum Fook Choon, Ewald Sonali Oranda Perera, David John Peters, George Savvides*, Harshadrai Ramanlal Tailor, Philip Geoffrey Tarr, Gilbert Sai Kin Wu. (9)

Diploma in General and Medical Microbiology: Rawa Ahmad-Farouk Al-Ahdab, Lulu Angarita Manrique, Sami Mahmoud Bahri, Begona Cachon Gonzalez, Hella Sabina Huikeshoven, Carolyn Maiwald, Christos Yiangoy Potsides, Sara Zaman. (8)

Diploma in Hydrogeology: Muhammad F.A.A. Al-Rashed, Kim Loraine Biggs, Geoffrey Gordon Bowen, Bruce Allan Boyes, Michael Francis Davenport, Susan Jane Mary Forson, Geoffrey James Keenan, Peter Ransford Athelston Lamm, Linda Grant Mauluka, Henning Moe, Robert Wilson Mutepfa, Bo Myint Win, Myo Myint, Michael James Streetly. (14)

*Awarded with Distinction

Diploma in Statistics: Janakiram Aiyer, Jean Margaret Durham*, Melanie Karen Ford, Charlotte Emma Romen Ward. (4)

Certificate in Archaeological Conservation: Robert Michael Entwistle, David John Howell, Justin McMorrow, Rosa Wai-Ling Pang, Kevin John Smith. (5)

FACULTY OF ENGINEERING

Diploma in Biochemical Engineering: Elaine Claire Barnbrook*, Ramon Julio Carrasco Sanchez, John Richard Douglas, Christopher John Arthur Finnis, David Charles Hearle*, Jonathan Charles Lee Jackson, Ashour Michael, Keith John Osborne, Budhi Priyanto, Charlotte Jane Purchas, Graham David Richardson, Francis William Roche*, Marie Elisabeth Van Santen*. (13)

Diploma in Geodesy: David John Grimoldby, Nelson Ho Chi Yuk, Prosper Ernest Paul Ulotu. (3)

Diploma in Information Technology: Andrew Philip Bye, Sarah Jane Casson, Chu Victor Langheid, Ian Frederick Craig, Michael Cuthbertson, Andrew Duggan, Claire Mary Ruth Eggington, Hilary Carol Farrington, Clive Ronald David Flatau, David Stephen Fletcher, Vassilios Ioannis Giannoulis, Iain Campbell Gray, Andrew Harvey, Graham Robert Horsham, Keith George Hutton*, Diego Alfredo Jijon Ferri*, Leonidas Katsarlinos, John Patrick Michael McCarthy, Christopher Timothy Price, Duncan Peter Smith*, Stephen Andrew Westwood, Andrew John Wheeler, Robert John Woad, Rio Seto Yudoyono. (24)

Diploma in Marine Engineering: Glenn Harold Bate*, Cameron Craig, Trevor Alexander Cromie, Michael Charles Greatwich, Michael Edward Middleton*, Andrew Phillips, Adrian John Tillin. (7)

Diploma in Microwave Engineering: Hazem Mustafa Abbas Abu-Risheh, Christopher Angove, Jeffery Anthony Armitage, Kultar Singh Banga, David Blacknell, Ashley John Bostel, Peter Nicholas Daines, Pierre Henri Daniel Delarue, Marc Philippe Yves Desmulliez, Harjinder Singh Ghuman, Stephen David Grant, Robert Hamill, Wing Kwan Liu, Nigel John Mott, Raj Kumar Rayit, David Jonathan Staniforth. (16)

Diploma in Naval Architecture: Terry John Baldwin, Mark Peter Beck, Jonathan Mark Crawford*, Peter Alexander Curtis, Paul Fletcher, Joseph Louis-Philippe Serge Garon, Andrew Richard Hamilton, Krishan Kant, Felix Daniel Laffan, Yiu Wan Lee, Ahmed Abdel Fattah Ahmed Lotfy, Muhammad Jawad Majid Malik, Mark Owen Read*, Ian Alexander Robinson, Robert Neil Weedon. (15)

Diploma in Ocean Engineering: Charles Brian Ablett, Anne Bolstad, Christopher Patrick Dudgeon, Eamonn Francis Marrett, William Gabriel O'Brien*, Jusuf Sutomo, Tsz Keung Tsang, Mark Philip Prakash Vasudevan, Renos Yannopoulos. (9)

*Awarded with Distinction

Diploma in Photogrammetry: Faustin Agripa Sitima Banda, Hagai Mbakize Martine, Raynold Mbopisi Moyo, Adrian John Norris, Sam Richards, Bambang Sapto Pratomosunu, Bistok Sigalingging, Peter Julian Smith*, Thomas Tadrowski*, Sothinagaratnam Thillainadarajah. (10)

Diploma in Surveying: Adam Arthur Cattle, Sarah Elizabeth Harlow*, Richard James Hibbert, Mark Andrew Jones*, Li Chi Hung, David Peter Payne, Jane Margaret Read, Andrew Keith Scoggins*, Cheong-Wai Tsoi*. (9)

*Awarded with Distinction

FACULTY OF ENVIRONMENTAL STUDIES

Diploma in Architecture: Farid Escandar Afnan, Michael Almond, Nathalie Anne Bagnoud, Andrew Boyce, Siew Foong Cheong, Nicholas David Cowie, Patrick George Hubert Dillon, Brynley James Dyer, Corinne Fitzpatrick, Helen Jane Gardner, Andrew Kenneth Grindrod, Andrew James Hall, Christopher Simon Honey, Phillip Michael Hubbard, Jonathan Adeniyi Ibikunle, Paul Boris Jackson, Paul Antony Kember, John Arthur King, Ka Fung Alan Li, Tony Ka Luen Luk, Ian Ronald Malyan, Daniel Mandishona, Duncan Robert McLaren, Lucy Priscilla Montgomery, Christopher Oakland, Camillle Maria Olsen, Richard Thomas Paul, Clive Pendlebury, Alice Perrotte, Raja Shaidatul Izam Raja Haji Mansur, John Dominic Reid, Alison Sarah Rondel, Nicholas David Scales, James Julian Stephenson, Peter Victor Tarazi, Huw Thomas, Victoria Tong Wai Chee, Robert John Wills, Ewa Witkowski, David Ying Kit Wong, Sien Wah Shirley Wong, Catherine Zeliotis. (42)

Pre-Diploma Certificate in Architecture: Rowena Anne Bate, Amanda Jane Brown, Helen Christine Brunskill, Christine Cheuk Ting Chiu, Christopher Wai Yee Chong, Valerie Ruth Cooper, Jane Corfield, Joanna Mary Downs, Corinne Fitzpatrick, Fiona Galbraith, Serina Elizabeth Hijjas, Paula Hine, Alan Stephen Russell Howarth, Peter Hudson, Paul Antony Kember, Christopher Antony Lamb, Matthew Letts, William Duncan MaCaulay, Naoko Miyazaki, Ian Robert Molloy, Eugenia Jenny Ama Papaioannou, Richard Thomas Paul, Guy Edward Charles Field Pocock, Raja Shaidatul Izam Raja Haji Mansur, John Dominic Reid, William Andrew Speer, Andrew Richard Wheeler, Christine Yip Kee Ching. (28)

Diploma in Urban Planning Practice for Developing Countries: Sinan Ali Abu Khamseen, A K M Abdullah, Manjour Murshed Anwar, Teresita De Leon, Andrew Ukawuba Ekechi, Gi Bum Hong, David Akinlolu Ige, Asiru Babatunde Kuye, Chieko Mino, Mir Nasim Ahmad, Francisco Xavier Benedicto Pangaya. (11)

Certificate in Development Planning: Adel Adbul Hameed Al-Anzi, Abdullah Al-Juhaimi, Hamad Alobaidulla, Bakshiram Chowdhry, Ho Sung Kee, Nishat Ara Khandker, Radhey Mohan Lal, Kamal Mardini, Rosemary Awuor Odhiambo, Samir Kumar Pal, Sang Jin Park, Ghulam Sarwar, Rathnavelu Mudaliar Sivasubramanian, Thiagarajan Somasundaram. (14)

*Awarded with Distinction

APPENDIX V

SCHOLARSHIPS, STUDENTSHIPS AND PRIZES
COLLEGE AND UNIVERSITY AWARDS

COLLEGE AWARDS

Addison-Wesley Prize — M. Handley.
Eleanor Allen Prize (Economics) — T. Kluczkowski.
Charlotte Ashby Prize (Laws) — Louise Jones.
Asher Prize in Anatomy — Part I — V. S. Crean.
Atchison Prize (Clinical Sciences) — J. Rees.
Atchison Prize (Medical Sciences) — S. Janmohamed.
Atchison Exhibitions (Clinical Sciences) — K. H. Tan.
Sarah M. Baker Memorial Prize — Sharon Robinson.
Windham Baring Prize in Pathology — J. C. Lewis, H. J. Merriman.
Barlow Prize (Electronic and Electrical Engineering) — M. Whitehead.
Sir Herbert Henry Bartlett Scholarships (Architecture) — Alice L. F. Yeung.
Herbert Batsford Prize (Architecture) — B. Gunning.
Thomas Witherden Batt Scholarships (Science) — G. Armstrong, N. Cameron, H. J. McCarthy.
Leonard Bayliss Memorial Prize (Physiology) — W. R. C. Peckett.
Bayliss-Starling Memorial Scholarship (Physiology) — Karim Rastegar.
Francis Perch Bedford Prize (Zoology) — A. Michael.
Philip Seth Belasco Prize in Medicine — J. Rees.
Charles Bell Prize (Basic Medical Science) — H. Merriman.
Ada Heather Bigg Prize (Economics) — S. Jones.
Lloyd Bland Prize (Clinical Sciences) — Louise Skioldebrand.
Blonstein Prize (Mechanical Engineering) — J. Vinas-Pich.
Boise Scholarships (Fine Art) — Michael Bode, Ian Bottle, Michael Blodgett, Melanie Counsell, Marissa Davies, Robert Dukes, Catherine Froy, Laura Godfrey-Isaacs, Oona Grimes, Paul Gupta, Teresa Narduzzo, Hepzibah Rendle-Short, Melanie Smith, Stephen Wheeler.
Bonney Prize (Geological Sciences) — R. M. McCormick.
Bosanquet Prize (Mathematics) — K. H. Burke.
R. E. Bradbury Memorial Prize (Anthropology) — A. F. Heyer, P. W. Sterland.
Broderick-Parry Prize (Geography) — R. Murphy.
First Broderip Prize — J. Rees.
Second Broderip Prize — M. J. U. White.
'Building Prize' (Architecture) — J. Redmond.
Bunnell Lewis Prize (Latin) — P. Green, C. Ashley-Boulton.
Burhop Prize (Physics) — K. B. Teo.
C.A.P. Computer Prize (Medical Sciences) — Vanessa Pope.
Carey Foster Research Prize (Physics) — I. Simpson.
Margaret Elizabeth Dale Cast Prize (History) — N. Price.
Cayley Prize in Biochemistry Part I — N. Y. Patel.
Chadwick Certificate and Prize (Civil Engineering) — L. C. W. Bedford.
Chadwick Certificate and Prize for Preventative Medicine — J. Sheldon.

Churchill-Jenkinson Prize (Archive Studies) — P. Winterbottom.
Lillian Clarke Prize (Botany and Microbiology) — Stephanie Thompson.
Clinton Prize (Electronic Engineering) — R. A. Cole.
Corte Studentship in Mathematics — Jeremy Richard.
Coutaulds Prize — C. W. Brocklesby, R. J. M. Mortimer.
Cowley Prizes (Library and Information Studies) — Richard Ovenden.
Douglas Cree Prize in Medicine — W. Wang.
Croxon Memorial Scholarships (Clinical Sciences) — Wang Ee Jen, C. T. Capetta.
Deans Scholarships — Xiannong Chen, Deborah Golden, Desmond Mallikarachchi, J. Davila Silva, M. L. Edgar.
Dental Surgery Prize — R. C. Metcalf, Rohini Pathamanathay.
Dental Technology Prize — D. Carter.
Charlotte Dixon Memorial Prize (Basic Medical Sciences) — H. Merriman, J. Lewis, J. Shepherd, D. Moffit, H. Motamed.
Donaldson Medal (Architecture) — J. Flanagan.
Brian Duff Memorial Prizes (Physics and Astronomy) — K. B. Teo.
Geoffrey Duveen Prize in Oto-Rhino Laryngology — Catherine Richards.
Early English Text Society's Prize — R. Spurling.
Elliot-Blake Studentships — Xue-Nong Bo, J. Obeng.
Environmental Design Prize — M. Beanland.
Erichsen Prize in Surgery — J. Rees.
Douglas and Anne Feltham Scholarship (Clinical Sciences) — T. Bowley.
Archibald Ferguson Prize (Clinical Sciences) — G. Farfan.
Ferriere Scholarships (Clinical Sciences) — M. Stickland, S. Johnstone, T. Priest, N. Sellars, M. Sellwood, A. Burls.
Fielden Research Scholarship (German) — Andrew Perry, Mark Verrill.
Fitton Prize in Orthopaedics — Spencer Harland.
Richard Fitzgerald Prize (Laws) — Helen Reece.
Flemming Elective Period Awards (Clinical Sciences) — Ian McCafferty.
Sir Banister Fletcher Prize and Medal (Architecture) — C. Chong.
Peter Flinton Prize in Clinical Pharmacology and Anaesthesia — J. Rees.
Daryll Forde Award (Anthropology) — P. Walker.
Foreign Student Scholarship in Arts — Suzanne Naketen.
Freeman Prize in Obstetrics and Gynaecology — Peter Clarkson.
Irene Frowen Prize — G. Siklos.
Cyril de Vere Green Award (Dentistry) — Caroline Harvey.
Goldsmid Elective Period Awards (Clinical Sciences) — Karen Beale, Melanie Smith, Ramanie Jayaweera, Latha Narasimhan.
A. Goldsmid Prize in Oncology — J. Rees.
A. Goldsmith Prize in Ophthalmology — D. Jenkins.
Edith Goodyear Prize (Geological Sciences) — Ruth J. Williams.
William Grossman Prize in Orthodontics — Sarah Blake.
Eva Grunwald Memorial Prize (French) — Annie Shone.
Paul Haas Studentships (Botany and Microbiology) — Caroline Alfa, M. W. Davies.
Violet Hall Prize (French) — Alistair Cook, Jane Macleod.
Halley Prize (Astronomy) — W. L. Chan.
Bernard Hart Prize in Psychiatry — J. Rees.
Edward Hart Prize and Michael Dawkins Medal in Paediatrics — Catherine Richards.

Hart Prize (Photogrammetry) — T. Tadrowski.
Hart Prize (Surveying) — M. A. Jones.
Haymills Scholarship — I. Brown.
Archibald P. Head Memorial Medal and Prize (Mechanical Engineering) — A. J. Preece.
Heimann Medal and Prize (German) — Helen Hughes.
Herschel Prize (Astronomy) — Alice A. Dixon.
Hetley Clinical Prize — J. Rees.
Elsie Hitchcock Prize (English) — D. Parsons.
John Oliver Hobbes Memorial Scholarship in Modern English Literature — Melanie Brewer, Lawrence Dale.
Hobbiger Prize in Clinical Pharmacology and Therapeutics — Richard Philipson.
Hollier Scholarship in Greek — G. Owens.
Hotine Exhibition — T. Tadrowski.
R. B. Hounsfield Prize in Traffic Engineering — R. M. Calladine.
Leopold Hudson Prize in Surgery — Susan Griffith.
E. D. Hughes Bursary (Chemistry) — Parveen Kaushal.
Human Diseases Prize — Anne Gibilaro.
Huntingdon Research Centre Prize (Histology Part 1, Medical Sciences) — R. J. Hopkins.
Hurst Prize in English Law — Elizabeth Jenkinson.
Joel Hurstfield Prize (History) — Sarah H. Dalkin.
ICI Prize (Second Prize in Anatomy, Part I) — A. W. Hassan.
ICI Pharmaceuticals UK Pharmacology and Therapeutics Prize — M. J. U. White.
ICI Pharmaceuticals Division Elective Period Awards (Clinical Sciences) — Karen Beale, Melanie Smith, Sunil Chopra, David McKiernan.
Institution of Civil Engineers Prize — M. A. Nokhasteh.
Institution of Electrical Engineers Prize — M. Y. P. Fung.
Institution of Mechanical Engineers Prize — A. J. Preece.
Jackson Lewis Scholarship — N. A. Tallant, T. Parish.
Sir Hilary Jenkinson Scholarships in Archive Studies — A. P. Autton, I. E. Donaldson, Elizabeth Doull, Judith M. Etherton, Carolyn Jewitt, Christine Jones, O. H. Wooler, Alison M. Gardiner, R. K. Hands, Katherine Schofield, Sharon J. Tuff, Emma M. Williams.
Jevons Memorial Scholarship in Economic Sciences — Paul Baker.
Lloyd Johnstone Trust Bursary — John Beaven, Ruth Moon.
Jolowicz Prize (Laws) — Elizabeth Jenkinson.
Rhianon Jones Memorial Prize (English) — Jane Carter.
Horace Joules Prize in Community Medicine — Nicola Freris.
Sydney Kaye Prize in Physiology and Enocrinology — P. A. Hepple.
Ker Memorial Prize (English) — D. Rowland.
Kestelman Prize (Mathematics) — N. S. Radford.
Kitson Prize (Chemical and Biochemical Engineering) — C. T. Aitken.
Dr R. Kohn Prize (Physiology Part I — Medical Sciences) — Rachel J. Hopkins.
Richard Laitner Memorial Fund Elective Period Awards (Clinical Sciences) —Helen New.
Sir Thomas Lewis Prize in Cardiology — Ruth Howlett.
Library and Information Studies Exhibitions — E. A. Fletcher, D. Birchinall, S. Chaplin.
Sidney Long Prize in Surgery — F. Haddad, D. Inwald.
Lyell Prize and Medal in Surgery — J. Rees.

Magrath Prize in Surgery — Peter Clarkson.
Magrath Scholarship and Fellowes Gold Medal Prize in Medicine — James Brenton.
Malden Scholarship in Greek — G. Owens.
Harrie Massey Prize — I. Stevens.
Matthews Prize (Exploration Geophysics) — A. J. Brownjohn.
Maxwell Law Prize — Davina Cooper.
Mead Scholarship in Geography — Andrew Collison.
Medical Sciences Bursaries Fund Scholarship — D. H. Wyllie, A. J. Dave, J. E. Kiel, V. Balikrishnan.
Medical Sickness Society Elective Period Awards — Paul Jarman.
Merck Sharp and Dohme Ltd Prize (Biochemistry Part I — Medical Sciences) — Leora B. Harverd, Imtiyaz Mohammed.
Merck Sharp and Dohme Ltd Prize (Genetics Part II — Medical Sciences) — Sally J. Green.
Sir William Meyer Prize (Geography) — T. Allott.
Sir William Meyer Prize (History) — R. Bickers.
Sir William Meyer Essay Prize (Geography) — D. Wrathmall.
Sir William Meyer Travelling Studentships (History) — D. J. Carter, Clare Farrow, Helen Newens, A. Turton.
Meyerstein Scholarships (Clinical Sciences) — N. E. Clark, J. Lewis, H. Merriman.
Momber Scholarships in Science — H. J. McCarthy.
Cecily de Monchaux Memorial Prize (Psychology) — Christiane Sanderson.
Morley Medal and Prize (Modern English Literature) — A. Carruthers-Watt.
Morris Prize (Geological Sciences) — J. G. Larwood.
Rosa Morison PG Scholarship in Arts — P. Bullough.
Rosa Morison Scholarship in English Language and Literature — Helen Hayward.
Douglas Murray Scholarships in Egyptology — Christopher Allen.
H. B. Murray Memorial Prize for Periodontology — R. C. Metcalf.
John Murray Prize and Medal in Clinical Pharmacology and Therapeutics — J. Rees.
Margaret Murray Prize — C. Allen.
Ronald Nyholm Prize (Chemistry) — A. J. Nightingale.
Orthodontics and Paedodontics Prize — Melanie R. Stern.
Catherine Maude Pearce Scholarship — Lisa Micklewright, Laura Matthews.
Pharmacology Class Prize — J. C. Lewis, H. J. Merriman.
Platt Prizes (Greek) — Catherine Bateman, M. Roberts.
Flinders Petrie Scholarship in Egyptian Archaeology — Christopher Allen.
Harry Poole Prize (Chemistry) — S. Briody.
Postgate Prize (Classical Philology) — P. Green.
Theodora Prankerd Memorial Scholarship — A. Mayer.
Prankerd-Jones Fund Elective Period Awards (Clinical Sciences) — Glynis Edwards, Richard Jones, John Klein, Danielle Lab, Deborah Lander, Mark Mead, Michael Mercer, Duncan Ramsay, Nicola Thomas, Lynda Webb.
Prankerd-Jones Memorial Prize in Immunology — A. Mayer.
Prankerd-Jones Memorial Prize — Project — Part II Examination — R. D. Thompson.
Rank Taylor Hobson Prize — C. J. Owen.
Ramsay Memorial Medal (Chemistry) — I. G. E. Davison.
William Henry Rean Prize — J. Brenton, Patricia Ward.
Margaret Richardson Scholarship in German — Charlotte Nolte.
Ellen Richards Prize — Sharon Robinson.

Riker Laboratories Elective Period Awards (Clinical Sciences) — Joanne Ford Alison Pickford, Lyndon Wagman.
F. T. Roberts Prize in Obstetrics and Gynaecology — J. Rees.
Fitzroy Robinson Drawing Prizes (Architecture) — Fiona Galbraith, P. Antoniou.
Rosenheim Elective Period Awards (Clinical Sciences) — Rajan Bowri, Helen Capps Frances Foster, S. Adel Hai, Tristan Lacy, Neil Laufer, John Mancey-Jones, Roseanne Meacher, Emma Penny, Mary Robertson, Joanne Smith, Robert Tansley, Andrew Webb, Alan Yu.
Scher Essay Prize in Prosthetic Dentistry — Karen Lewis.
Simmons and Simmons European Communities Law Prize — Lynne Gregory.
Simmons and Simmons Land Law Prize — Lynne Gregory.
Slade Scholarships (Fine Art) — Susanna Jacobs, Anne Lindall.
Franz Sondheimer Prize (Chemistry) — S. M. Lawrence.
Harold Speight Prize in Economics — A. E. Daniels, S. R. Cox.
Stevenson Prize (Applied Mathematics) — M. J. Day.
Suckling Prize in Obstetrics and Gynaecology — Sally Chown.
C. A. R. Tayler Prize (Physics and Astronomy) — P. J. Smith.
Sir Andrew Taylor Prize in Architecture — C. Chong.
Temple Frere Prize in Obstetrics and Gynaecology — S. Janmohamed.
J. A. C. Thomas Scholarship (Laws) — B. Sturridge.
Touche Ross Prize (Economics) — D. Chrysanthou, J. K. Yim.
Townsend Viking Society Prize (Scandinavian Studies) — Jane Dale.
Tuffnell Scholarships (Chemistry) — D. Curley, J. K. Jenkins.
A. J. V. Underwood Exhibition (Chemical and Biochemical Engineering) — J. D. Murphy.
Ellen Watson Memorial Scholarship in Applied Mathematics — W. P. Tan.
Webber Prize (Laws) — Delyth Evans.
Dr Christopher Whiteside Awards (Clinical Sciences) — Michelle Lightly, S. Clarke, Judith Stanton, M. J. Lee.
Dr D. T. Whittet Prizes (Pharmacology Part II — Medical Sciences) — Pamela J. Linney.
Thomas Yeates Prize in Anatomy (Part I — Basic Medical Sciences) — N. Y. Patel.
T. C. Yu Elective Period Award — Kerry Howard, Sarah Jefferies, Neil Jones, John Lowe, Caroline Robertson, Helen Robshaw, Ian Starley, Jason Waugh.

FACULTY MEDALS AND PRIZES

Engineering: Goldsmid Medal and Prize — A. J. Preece.
Environmental Studies Medal and Prize — Harriet Holt.
Laws: Andrews Medal and Prize — M. Wonnacott.
Medical Sciences: Medal and Prize — N. R. Holland.
Science: Medal and Prize — K. B. Teo, A. Michael.

SESSIONAL PRIZES

Anthropology: M. G. Smith Prize — P. Rosen. *Rosa Morison Prize* — K. J. Powell.
Archaeology: Sessional Prizes — Elizabeth A. Hart, G. Hargreaves, Louise Humphrey.
Dutch: Sessional Prize — J. Ross.

Economics: Hume-Lloyd Scholarships — A. Zafar, R. S. Addison, A. Cameron. *G. C. Allen Prize* — S. A. Tuttle. *Sessional Prize* — C. Ellis.

English: Campbell Clarke Scholarships — S. Scott-Kembal, Sally Vinelott. *West Scholarship* — Sally Bellamy. *Ifor Evans Prize* — Belinda Innes.

Fine Art: Coldstream Prize — M. Holdaway. *Monnington Prize* — Stephanie Smith.

French: Rosa Morison Prizes — Clare Edmonson, Deborah Fisher, C. Woods.

Geography: College Prize — S. Draper. *H. C. Darby Prize* — Laura Dyke. *Maconochie Prize* — G. Grubb. *1903 Prize* — Andrea Tribe, Helen Bennion. *W. R. Mead Prize* — Sarah Scott.

German: Robertson Prize — A. Stevens. *Willoughby Prize* — S. Judd.

Greek: Long Prize — Gail Hemming, P. Daly.

History: Alfred Cobban Prize — Rachel H. Clarke, Dawn N. Munford. *Dolley Prize* — M. H. Porter. *West Prize* — B. Dann, Penny Hawtin. *Pollard Prize* — A. Crichton.

History of Art: Gombrich Prize — Antje Schmitt. *Whittkower Prize* — P. Franklin.

Italian: Sir Anthony Panizzi Prize — Sarah Seward, Nicola Craig.

Latin: Key Prize — Caroline Freeman.

Philosophy: Dawes Hicks Scholarships — Rachel Firth, Y. E. Unterman. *A. J. Ayer Prize* — Alya Khan.

Phonetics and Linguistics: Harold E. Palmer Prize — Agnieszka Urbanowicz. *Alexander Melville Bell Prize* — Sarah Kramer. *Goldman-Eisler Prize* — C. Verschaur. *D. B. Fry Prize* — Alyson Eccles.

Scandinavian Studies: Crabtree Prize — N. A. Smith.

Spanish and Latin American Studies: Alcala Galiano Prize — M. Jessop. *A. A. Parker Prize* — Danielle Green.

Laws: Andrews Prizes — Elizabeth Jenkinson, Lynne Gregory, G. Tombolis, J. Tully, T. Chittenden.

Architecture: Bartlett Prizes — Norma Aldred, J. Nellist, J. Yap, M. Wood.

Anatomy and Embryology: J. Z. Young Prize — Samantha Woodford. *N. A. Barnicot Prize* — Alexandra Oldroyd, Caitlin Delaney.

Biochemistry: Jack Drummond Prize — Sally Leevers. *Plimmer Prize* — S. Collings, J. Chappell.

Botany and Microbiology: Darwin Prize — Louise Banett. *Robert Hooke Prize* — Andrea Caricasole. *Huxley Prize in Biology* — Tanya Parish. *Sessional Prize* — Susan Bridger.

Chemistry: C. K. Ingold Prizes — R. P. Austin, R. Aronson, B. R. Cockerton, N. A. Tallant, S. N. Thorn.

Computer Science: Sessional Prizes — A. Polley, S. Menefy, Lyn Thomas, P. Uttley.

Genetics and Biometry: Sessional Prizes — W. J. H. Schnupp, A. I. El-Eini.

Geological Sciences: Chubb Prize — A. Law. *Hollingworth Prize* — D. R. Woodgate.

Mathematics: Filon Prize — C. S. Ovenden. *Hill Prize* — M. A. Caine. *Jeffrey Prize* — J. K. Shalleross.

Pharmacology: Sessional Prize — G. Hicks. *H. O. Schild Prize* — P. Linsdell.

Physics and Astronomy: William Bragg Prize — Angela C. Archer. *Wood Prize* — D. B. Levey. *Oliver Lodge Prize* — R. Siddans. *Huggins Prize* — P. A. Crowther.

Physiology: Foster Prize — Ingrid Wolfe.

Psychology: McDougall Prize — S. J. Richardson. *Spearman Prize* — Mary E. Kyriacou, Louisa Mason.

Statistical Science: Egon Pearson Prize — A. Crisp, R. M. Curds. *Karl Pearson Prize* — S. E. Blake.

Chemical and Biochemical Engineering: Goldsmid Prizes — D. J. Cant, A. H. Quartey-Papafio.

Civil and Municipal Engineering: Goldsmid Prizes — B. A. Rangasamy, J. R. Simmons, D. S. K. Yim.

Electronic and Electrical Engineering: Goldsmid Prizes — A. Ali, A. Twaij, M. J. Carter, G. Shilston.

Mechanical Engineering: Goldsmid Prizes — K. J. Neylon, M. J. M. Rookwood, C. J. M. Forrest. *Goldsmid Medal and Prize* — A. J. Preece.

Medical Courses — Part I Examination: Drummond Prize in Biochemistry — Frances C. Gilchrist. *Glaxo Prize for Best Aggregate Performance in Part I* — V. S. Crean. *ICI Prize in Physiology* — Frances C. Gilchrist. *Frank Scott Prize for Best Aggregate Performance* — Rachel J. Hopkins. *Smith, Kline and French Laboratories Ltd Prize in Anatomy* — D. K. Pinder.

Medical Courses — Part II Examination: Cluff Prize in Physiology — A. J. Dave, R. D. Thompson. *Cuxson Gerrard Prize in Pharmacology* — V. Balakrishnan. *Drummond Prize in Biochemistry* — Pamela J. Linney. *Elga Prize in General Pathology* — D. H. Wyllie. *Suckling Prize in Neurosciences* — D. H. Wyllie. *Wellcome Prize in Human Biology* — Joanna M. Pearson. *Wyeth Prize for Best Aggregate Performance in Part II* — V. Balakrishnan. *Project Prizes* — C. J. Williams, J. H. Payne.

Second Examination in Dental Surgery: Anatomy Prize — Shruti Patel. *Biochemistry Prize* — M. Sulieman. *Physiology Prize* — Shruti Patel. *Best Aggregate Performance Prize* — Shruti Patel.

APPENDIX VI

BENEFACTIONS, DONATIONS RESEARCH GRANTS AND CONTRACTS

The College Council makes grateful acknowledgement of the following:

ADVANCED CARDIOVASCULAR SYSTEMS INC
£6,435 for the Department of Surgery for Angioplasty research.

ALLAN & HANBURY
£9,830 for the Department of Medicine for a double blind parallel group study in the management of asthma.

AMERADA HESS
£10,000 for the Department of Geological Sciences to provide a one-year Studentship.

ANGLIAN WATER
(1) £14,046 for the Department of Civil & Municipal Engineering for a filter penetration study.
(2) £300 for the Department of Civil & Municipal Engineering for a filtration study.

ANGLO-GERMAN FOUNDATION
£26,082 for the Bartlett School for improving the quality of large housing estates.

ANNA FREUD CENTRE
£76,000 for the Department of Psychology for a study of the effectiveness of Child Psychoanalysis.

ARTHRITIS RHEUMATISM COUNCIL
£42,018 for the Department of Immunology for core support.

ARTHRITIS RESEARCH COUNCIL
£112,562, jointly for the Departments of Biology and Histopathology for the study of the regulation of lymoherines by antigen presenting cells.

ASSOCIATION OF INTERNATIONAL CANCER RESEARCH
£1,000 for the Department of Biology for the study of Hutagenesis.

ASTHMA RESEARCH COUNCIL
(1) £12,449 for the Department of Anatomy & Developmental Biology for studies on paratracheal neurones in culture.
(2) £4,000 for the Department of Pharmacology for the study of the slowly developing tonic spasm of guinea pig bronchiolar muscle.

ASTOR FOUNDATION
(1) £2,500 for the Department of Chemical Pathology for equipment.
(2) £760 for the Department of Medical Physics for equipment.
(3) £260 for the Institute of Neurological Studies for equipment.

(4) £2,125 for the Department of Physiology for equipment.
(5) £3,232 for the Department of Surgery for equipment.
(6) £2,185 for the Institute of Urology for equipment.

AUTOCARTO-RICS

£5,319 for the Department of Photogrammetry & Surveying for the study of topological structures.

BALLIÈRE TINDALL LTD

£10,500 for the Department of Surgery for 'Lasers in Medical Science'.

BLOOMSBURY HEALTH AUTHORITY

(1) £166,825 for the Department of Community Medicine for the "Evaluation of AIDS Community Care".

(2) £14,761 for the Department of Chemistry for the measurement of the superthreshold auditory function in the hearing impaired.

(3) £12,355 for the Department of Chemistry for the study of lymphocyte population during the primary tissue culture of normal and neoplastic human laryngeal epithelium.

(4) £12,755 for the Department of Clinical Oncology for the study of the overcoming the resistance of human tumours to alkylating agents.

(5) £11,141 for the Department of Obstetrics & Gynaecology for secretarial support.

BREAST CANCER FUND

£15,371 for the Department of Histopathology for Breast Cancer research.

THE BREWERS SOCIETY

£20,000 for research into alcoholism.

BRITISH ACADEMY

(1) £33,680 for the Department of English for a British Academy Readership, the cost of a replacement teacher.

(2) £33,680 for the Department of History for a British Academy Readership, the cost of a replacement teacher.

(3) £7,800 and £5,000 for the Institute of Archaeology for the Tell Nebi Meno Excavation.

(4) £2,000 for the Institute of Archaeology for an editorial assistant for the completion of monographs on the Winchester and Jewbury skeletal series.

(5) £13,477 for the Department of English for a study of English adverbials using a computerised corpus.

BRITISH COUNCIL

£1,940 for the Department of Anthropology for the study of community organization in Spain and Latin America: continuity and change.

BRITISH DIABETIC ASSOCIATION

(1) £40,085 for the Department of Biochemistry for 'Regulation of adipose tissue 5' nucleotidase by insulin'.

(2) £65,961 for the Department of Immunology for 'Isolation and cloning of T cells involved in murine insulin dependent diabetes'.

BRITISH DIGESTIVE FOUNDATION

£15,000 for the Department of Medical Microbiology for the study of the role of cell-wall deficient organisms in inflammatory bowel disease.

BRITISH HEART FOUNDATION

(1) £306,487 for the Department of Anatomy & Developmental Biology for the study of the mechanisms of local control of blood flow.

(2) £68,370 for the Department of Anatomy & Developmental Biology for the 'Regulation of blood pressure by purines'.

(3) £45,363 for the Department of Anatomy & Developmental Biology for the study of the distribution of cardiotheracic autonomic neurons in the guinea pig.

(4) £50,683 for the Department of Biochemistry for 'The adenosine dependent breakdown of phosphogly-ATP in heart'.

(5) £40,274 for the Department of Biochemistry for the study of the regulation of fatty acid metabolism by cardiac muscle.

(6) £78,807 and £5,152 for the Department of Community Medicine for the study of coronary heart disease in Asians and Europeans in Britain.

(7) £91,824 for the Department of Physiology for the study of the mechanism of failure of calcium release during metabolic blockade.

(8) £76,727 for the Department of Physiology to investigate the role of calcium in cardiac excitation-contraction coupling.

(9) £40,234 for the Department of Physiology for the study of the measurement of intracellular Ca pH in single smooth muscle cells.

BRITISH INSULATED CABLE COMPANY

£34,370 for the Department of Electronic & Electrical Engineering for the investigation of cross-talk problems in fibre connected integrated optic circuits.

BRITISH LIBRARY

£51,698 for the Department of Computer Science for 'Project Quartet'.

BRITISH PETROLEUM

(1) £2,000 for the Department of Geological Sciences for BP dilatancy research.

(2) £3,300 for the Department of Mechanical Engineering for the investigation into the effects of surface tensions and viscosity on droplet size.

(3) £42,843 and £33,606 for the Department of Photogrammetry & Surveying for 'Exploration leads from remotely-sensed imagery'.

BRITISH PETROLEUM (AUSTRALIA)

£31,835 for the Department of Geological Sciences for the PNG Regional Gravity Research Project.

BRITISH RAILWAYS BOARD

£12,000 for the Department of Civil & Municipal Engineering (Transport Studies Group) for research on commuting in South East England.

BRITISH SCHOOL AT ATHENS

£5,451 for the Institute of Archaeology for the investigation of Agrileza metallurgical finds.

BRITISH TECHNOLOGY GROUP

£36,000 and £26,340 for the Department of Haematology for the study of anti-sickling compounds.

CANCER RESEARCH CAMPAIGN

(1) £26,019 for the Department of Anatomy & Developmental Biology to study the characterization of the antigenic phenotype of human osteosarcoma.

(2) £62,565 for the Department of Biochemistry for PO_2 structure, expansion and control of genes coding for cytochromes P 450.

(3) £50,368 for the Department of Biology for the study of PO_2 regulation of cellular gene expression.

(4) £26,154 for the Department of Biology for the study of cytoskeleton and cell cycle control in schizosaccaromyces pombe.

(5) £14,484 for the Department of Biology for the study of PO1 cellular genes activated by herpes simplex virus.

(6) £27,589 for the Department of Chemical Pathology for studies of the therapeutic potential of astatinated methylene blue for malignant melanoma.

(7) £49,311 for the Department of Clinical Haematology for clinical trials in lung cancer.

(8) £37,778 for the Department of Clinical Oncology for PO6 clinical trials in lung cancer.

(9) £18,153 for the Department of Clinical Oncology for an advanced non Hodgkins lymphona study (CHOP vs. PACE-BOM).

(10) £13,110 for the Department of Clinical Oncology for randomised trials of chemotherapy in lung cancer.

(11) £32,962 for the Department of Genetics & Biometry for PO_2 investigation of somatic genetic changes in the development of Testicular Teratona and Colorectal Carcinoma.

(12) £60,499 for the Department of Histopathology for analysis of ethylnitrosourea.

(13) £42,658 for the Department of Biology for the study of PO1 cellular genes activated by the herpes simplex virus.

CENTRAL ELECTRICITY GENERATING BOARD

£61,136 for the Department of Geography for research into carbonaceous and siliceous particle analysis in lake sediments.

COMMISSION OF THE EUROPEAN COMMUNITIES

(1) ECU 500 for the Bartlett School of Architecture and Planning for a short study visit to Germany and France.

(2) BF 272,000 for the Department of Chemistry for the study of the characterization and reactions of organic radical cations.

(3) £123,500 for the Department of Community Medicine for the study of the epidemiology, aetiology and public health aspects of Diabetes Mellitus (EURODIAB).

(4) ECU 25,000 for the Department of Economics for the study of European labour markets with particular emphasis on using labour force sample surveys.

(5) ECU 25,000 for the Department of Economics for labour force sample surveys.

(6) £652, for the Department of Statistical Science for group visits to Lisbon.

CONRAN ROCHE

£650 for the Bartlett School of Architecture and Planning for the translation of Schinkel diary.

COUNCIL FOR THE PROTECTION OF RURAL ENGLAND

£6,225 for the Department of Geography for the study of the conservation and development of farming.

CROHN8S IN CHILDHOOD RESEARCH APPEAL

£14,500 for the Department of Immunology to be used at the discretion of the Department.

DAKO LTD

£11,583 for the Department of Histopathology to be used at the discretion of the Department.

DARESBURY LABORATORY

£19,530 for the Department of Physics & Astronomy for the analysis of astronomical spectra.

DEPARTMENT OF ENERGY

£19,217 for the Department of Economics for modelling energy expenditure using household data.

DEPARTMENT OF THE ENVIRONMENT

(1) £104,818 for the Department of Civil & Municipal Engineering (Transport Studies Group) for the monitoring of urban road safety demonstration projects.

(2) £95,950 for the Department of Civil & Municipal Engineering (Transport Studies Group) for the study of driver behaviour at traffic signals.

(3) £81,552 for the Department of Civil & Municipal Engineering (Transport Studies Group) for the study of tourist coaches in London.

(4) £2,000 for the Department of Civil & Municipal Engineering (Transport Studies Group) for the application of the Leed Integrated Land Use Transport Model (LILT).

(5) £36,316 for the Department of Geography for the study of the effects of air pollution on stonework at Westminster Abbey.

DEPARTMENT OF HEALTH AND SOCIAL SECURITY

(1) £161,900 and £9,690 for the Department of Medical Physics for the clinical evaluation of the surgical modelling systems.

(2) £61,432 for the Department of Medical Physics for the design and development of new pads and appliances for the incontinent.

(3) £5,087 for the Department of Medical Physics for the development of fluid fibres for lasers.

(4) £15,255 for the Department of Mental Health for the evaluation of the transition from psychiatric hospitals to district based services.

(5) £812 and £409 for the Department of Paediatrics for the study of neurodevelopmental disorders in survivors of neonatal intensive care.

(6) £45,000 for the Department of Statistical Science (CORU) for the development of disease modelling and information systems for clinicians.

(7) £45,000 for the Department of Statistical Science (CORU) to be used at the discretion of the Department.

DEPARTMENT OF TRADE AND INDUSTRY

(1) £106,483 for the Department of Chemistry for the study of vapour pressures of organic compounds.

(2) £16,809 and £8,591 for the Department of Electronic & Electrical Engineering for the study of integrated optic lithium niobate modulators.

(3) £62,468 for the Department of Phonetics & Linguistics for the study and development of speech interfacing and phonetic algorithms.

(4) £47,275 for the Department of Psychology (Ergonomics Section) for the development of a software for evaluation of advanced software systems.

(5) £619 for the Department of Psychology (Ergonomics Section) for cognitive modelling.

DUNHILL MEDICAL TRUST

(1) £10,500 for the Department of Clinical Oncology as a donation to the Cancer Research Fund.

ECONOMIC AND SOCIAL RESEARCH COUNCIL

(1) £16,040 for the Bartlett School of Architecture and Planning for a consultant to the ESRC transport initiative.

(2) £8,000 for the Bartlett School of Architecture and Planning for a franco-British Programme — the rural environment: a transitional comparison of policy structures and attitudes.

(3) £6,040 for Department of Phonetics & Linguistics for a study of the interaction between grammar and pragmatics.

(4) £5,500 for the Bartlett School of Architecture and Planning for 'Transport policy and planning: the first 30 years'.

(5) £2,474 for the Department of Civil & Municipal Engineering (Transport Studies Group) for the study of the use of trip chains to investigate travel demands in a conurbation.

(6) £3,228 for the Department of Economics for modelling for fare policy analysis.

(7) £36,980 for the Department of Genito-Urinary Medicine for a study of the health behaviour of bisexual men in relation to HIV infection and AIDS.

(8) £714 for the Department of Geography for evaluating amenity land in the urban fringe.

(9) £16,000 for the Department of Civil & Municipal Engineering for Engineering applications 1 and 2 development project.

ENTERPRISE OIL

(1) £36,000 for the Department of Geological Sciences for geological research in South East Asia.

(2) £6,172 for the Department of Geological Sciences for use at the discretion of the Department.

ESSEX COUNTY COUNCIL

£386 for the Institute of Archaeology for the preparation of the Essex Flints Report.

FARMCOTE DEVELOPMENT T/A TARMAC

£25,000 for the Institute of Archaeology for the Lewes Friary Excavation.

THE FORESTRY COMMISSION

£22,254 for the Department of Biology for a review of Conservation Management by Non-Governmental Agencies on Forest Reserves.

FOUNDATION FOR AGE RESEARCH

£18,000 for the Department of Clinical Pharmacology for the study of monosaccharide autoxidation, glycosylation, free radicals and cataract.

GELTOCH INC

£96,743 for the Department of Electronic and Electrical Engineering for 'Micro-optical components fabricated in sel-gel silicon glass'.

J. PAUL GETTY C-T

£90,000 for the Institute of Archaeology for the training of students in Conservation.

GLAXO GROUP RESEARCH LTD

£12,045 for the Department of Medical Physics for the assessment of the deposition of radio-labelled drugs.

THE GREAT BRITAIN SASAKAWA FOUNDATION

£5,000 for the Department of English to produce a book on British views on Japan.

HASTINGS DISTRICT COUNCIL

£8,000 for the Institute of Archaeology for the Hastings excavation, the Phoenix Building.

HEALTH EDUCATION AUTHORITY

(1) £2,855 for the Dental School for the periodontal self-care project.

(2) £2,757 for the Dental School for the development and evaluation of a self-instruction manual for people with periodontal conditions.

HEALTH PROMOTION RESEARCH TRUST

£1,540 for the Department of Psychology for the study of the psycho-physiological effects of withdrawal from regular exercise.

HISTORIC BUILDINGS AND MONUMENTS COMMISSION

(1) £36,400 for the Institute of Archaeology for the Boxgrove Palaeolithic Post-Excavation work.

(2) £25,140 for the Institute of Archaeology for the Boxgrove Iron Age and Roman Post-Excavation work.

(3) £15,314 for the Institute of Archaeology for Botolphs Post-Excavation work.

(4) £6,560 for the Institute of Archaeology for Bignor Roman Villa Post-Excavation work.

(5) £6,183 for the Institute of Archaeology for the extensive survey of Wealden.

(6) £4,709 for the Institute of Archaeology for Boxgrove Iron Age and Roman excavations.

(7) £3,252 for the Institute of Archaeology for the Arundel Castle excavation.

(8) £3,000 for the Institute of Archaeology for Laughton Place Post-Excavation work.

(9) £150 for the Institute of Archaeology for the Skeletal Biologist contract.

HEISER PROGRAMME FOR RESEARCH IN LEPROSY

£2,000 and £1,000 for the study of T-cell epitope screening in mouse.

H.M. CUSTOMS AND EXCISE

£21,291 for the Department of Economics for the construction of a micro-simulation model to evaluate demand responses, household welfare and government revenue.

IMPERIAL CANCER RESEARCH FUND

(1) £15,435 for the Department of Clinical Oncology for a longevity study in small cell lung cancer.

(2) £60,488 for the Department of Histopathology for financial support of a fellowship.

(3) £35,522 for the Department of Statistical Science for support for the Research Unit on disease modelling and information systems for clinicians.

(4) £150,000 for the photosensitisation of tumours using phthalocyanines.

IMPERIAL CHEMICAL INDUSTRIES

(1) £16,000 for the Department of Geological Sciences for 'The prediction of crystal structures of pentosil zeolites'.

(2) £8,000 for the Department of Chemical & Biochemical Engineering for the 'Physical characterisation of industrial and pelleted catalysts'.

INCONTINENCE RESEARCH TRUST

£12,662 for the Department of Urology for a research programme on bladder substitutes for patients with urinary incontinence.

INDEPENDENT BROADCASTING AUTHORITY

£4,700 for the Department of Electronic & Electrical Engineering for the study of dielectric lens DBS antennas.

INTERNATIONAL SPINAL RESEARCH TRUST

£46,273 for the Department of Anatomy & Embryology for the 'Restoration of spinal cord function by regenerated embryonic motoneurones'.

INTERNATIONAL DEVELOPMENT RESEARCH CENTRE

£53,815 for the Department of Geography for the study of rental and shared housing in Latin America.

JOSEPH ROWNTREE MEMORIAL TRUST

£150,380 for the Bartlett School of Architecture and Planning for a case study of Greater London housing.

JUVENILE DIABETES FOUNDATION INTERNATIONAL

$39,416 plus a supplementary sum for the Department of Clinical Pharmacology: 'Monosaccharide autoxidation: a novel contributory factor to diabetic tissue damage'.

KNOLL AG

£29,000 for the Department of Chemistry for the study of the effect of LU 48953 on isolated human mast cells.

LISA LEAR FUND

£2,000 for the Department of Clinical Oncology for use at the discretion of the Department.

LEPRA

£34,713 for the Department of Biology for 'Leprae-Epitope Analysis of Cloned Mycobacterium Leprae Protein'.

LEUKAEMIA RESEARCH FUND

(1) £45,614 and £2,239 for the Department of Haematology for the evaluation of autologous bone marrow transplantation in lymphona.

(2) £29,905 for the Department of Haematology for the study of the mechanism of selective phototoxicity with phthalocyanine and its development for clinical use.

(3) £82,127 for the Department of Medicine for the investigation of bone marrow transplant in the treatment of children with leukaemia.

LEVERHULME TRUST

(1) £65,233 for the Department of Biology for the study of water relations and gas exchange in the parasitic weeds-olectra and striga.

(2) £8,000 for the Department of Chemistry for a post-doctoral visiting fellowship to Poland.

(3) £29,216 for the Department of Geography for research on social and economic upland agriculture.

(4) £7,470 for the Department of Geological Sciences for the study of mesozoic calcareous nannofossil biostratigraphy.

(5) £6,910 for the Department of Mechanical Engineering for a post-doctoral visiting fellowship to Czechoslovakia.

LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE

£3,713 for the Department of Histopathology for the study of the immunocytochemistry of leprosy.

LONDON STRATEGIC POLICY UNIT

£4,000 for the Bartlett School of Architecture and Planning for Developments on the Kings Cross Goods Yard site.

MEDICAL RESEARCH COUNCIL

(1) £154,663 for the Department of Anatomy & Developmental Biology for the analysis of sensory signals.

(2) £83,075 for the Department of Anatomy & Developmental Biology for the study of the control of growth and differentiation in peripheral glia.

(3) £81,606, £3,229, £921, £900, £743 for the Department of Anatomy & Developmental Biology for a study of the cerebellum and behaviour.

(4) £71,439 for the Department of Anatomy & Developmental Biology for 'Schwann cells, axons and the extracellular matrix; the molecular basis of their interaction'.

(5) £56,647 for the Department of Anatomy & Developmental Biology for the study of the development and plasticity of peptide containing neurons in rat visual cortex.

(6) £44,750 for the Department of Anatomy & Developmental Biology for the study of visual input to the cerebellum.

(7) £29,500 for the Department of Anatomy & Developmental Biology for the study of the role of the hippocampus in spatial cognition and memory.

(8) £18,130 for the Department of Anatomy & Developmental Biology for 'A transient substance P projection to the rabbit dorsal lateral geniculate nucleus during development'.

(9) £6,781 for the Department of Anantomy & Developmental Biology for the study of the pre- and post-natal development of somatosensory processing in the spinal cord.

(10) £27,700 for the Department of Biochemistry for the study of the control of brown adipose tissue thermogenesis by receptor indicated actions of adenosine.

(11) £24,353 for the Department of Biochemistry for the study of the properties and regulation of the triaculglycerol synthesis process in brown adipose tissue.

(12) £20,130 for the Department of Biochemistry to complete the purification and confirm the identity of CDC7 gene product by saccharomyces cerevisiae.

(13) £19,509 for the Department of Biochemistry for the study of the regulatory mechanisms in mammalian cells and tissues.

(14) £70,223 for the Department of Biology for 'Cytoskeletal structure and function studied by molecular genetics'.

(15) £3,550 for the Department of Biology for the Genomic investigation of a new vimentin associated pectin.

(16) £31,597 and £2,865 for the Department of Chemistry for the synthesis and evaluation of novelnucleoside analogues as potential anti-AIDS drugs.

(17) £17,776 for the Department of Chemical Pathology for the study of the purification and properties of function in growth regulation.

(18) £12,294 for the Department of Clinical Oncology for administrative support for the Cancer Therapy Committee.

(19) £1,149 for the Department of Clinical Oncology for the bone sarcoma trial.

(20) £71,887 for the Department of Clinical Pharmacology for the study of the role of monosaccaride autoxidation in diabetes mellitus.

(21) £111,405 and £8,280 for the Department of Community Medicine for the study of the prevalence of diabetes and impaired glucose tolerance and its relationship to coronary heart disease in Asians and Europeans in Great Britain.

(22) £6,350 for the Department of Community Medicine for the study of the pulmonary ventilation response to CO_2 production in the absence of changes in mean arterial CO_2.

(23) £62,009 for the Department of Genetics & Biometry for the molecular analysis of the human Y chromosome.

(24) £398,857 for the Department of Genito-Urinary Medicine for an investigation into AIDS.

(25) £154,398, £35,850, £8,995, £6,869, £1,000 and £1,000 for the Department of Genito-Urinary Medicine for the analysis of cell-mediated immunity in HIV infected individuals.

(26) £127,614, £1,000 and £833 for the Department of Genito-Urniary Medicine for the development and use of anti CD4 anti-idiotype monoclonal antibodies.

(27) £9,669 for the Department of Histopathology for collaboration of the Department with an MRC Sbu-group working in Testicular Tumours.

(28) £177,836 and £1,867 for the Institute of Neurological Studies for the study of neurological manifestation of HIV infection.

(29) £55,448 for the Institute of Neurological Studies for 'Blood-nerve barrier: identification of anionic in endothelial plasma membrane'.

(30) £87,517 for the Department of Medicine for the characterisation and cloning of the flavoprotein compound.

(31) £61,294 jointly for the Departments of Medicine and Paediatrics for the identification and characterisation of ion transport channels in respiratory epithelia.

(32) £5,000 for the Department of Paediatrics for a pilot study to develop ion transport in lung.

(33) £695 and £387 for the Department of Paediatrics for the study of the prevention of brain damage in new born infants.

(34) £203,525, £13,102 and £1,843 for the study of synaptic mechanisms, neuronal excitability and the actions of anti-epilept and other centrally active drugs.

(35) £133,052 for the Department of Pharmacology for the study of the expression and signal transduction by different molecular forms of the muscarinic receptor in neural skills.

(36) £54,606 for the Department of Pharmacology for the study of opioid and other influences on spinal and supraspinal processing of acute noniceptive stimuli.

(37) £13,699 for the Department of Pharmacology for a study of the involvement of the Geba receptor in modulation of central P-adrenocphers.

(38) £332,026 for the Department of Phonetics & Linguistics for 'Electrical and acoustic speech pattern presentation to the deaf'.

(39) £72,455 for the Department of Psychology for the assessment of vocal control in child stammerers.

(40) £63,559 for the Department of Psychology for developmental analysis of dyslexia in childhood.

(41) £52,925 for the Department of Psychology for the psychological investigation of length estimations.

(42) £51,380 for the Department of Statistical Science for the development of a microcomputer system for the management of a fluid, acid-base and nutritional balance therapy.

(43) £51,555 for the Department of Biology for the study of the control of O-ZA progenitor cell differentiation in the rat optic nerve.

(44) £500 for the Department of Biology for the development of neurobiology.

MIDDLESEX HOSPITAL SPECIAL TRUSTEES

(1) £15,979 for the Department of Clinical Oncology for the study of small cell lung cancer in tissue culture and sera of patients.

(2) £957 for the Department of Clinical Oncology for use at the discretion of the Department.

(3) £49,122 for the Department of Genito-Urinary Medicine for the study of the human Immunodeficiency virus.

(4) £14,131 for the Department of Immunology for the study of ultrastructure and immunocytochemical examination of organ-specific auto-immunity.

(5) £20,174 for the Department of Medicine for the validation of the Stelle Equation for determining glucose kinetics with radio and stable isotopes in man.

(6) £12,131 for the Department of Medicine for the study of the role of bronchoscopy in the management of patients infected with AIDS.

(7) £1,382 for the Department of Medicine for the study of lung involvement in scleroderma.

(8) £5,075 for the Institute of Urology for the investigation of a method of measuring fluid balance during transurethral resection of the prostrate.

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD

(1) £72,252 for the Department of Clinical Phamacology for the study of the influence of specific food components on the metabolism of caffeine.

(2) £4,000 for the Department of Clinical Pharmacology for the study of the influence of enzyme activity in the large intestine on activation and covalent binding of carcinogens and carcinogenic effects in the larger bowel.

MINISTRY OF DEFENCE

(1) £22,514 for the Department of Chemistry for the study of nitration using dinitrogen tetroxide.

(2) £14,000 and £14,000 for the Department of Computer Science for the investigation and internetworking techniques for packet-switched communications.

(3) £26,400 for the Department of Electronic & Electrical Engineering for 'Novel near field antenna measurements'.

(4) £4,600 and £1,402 for the Department of Electronic & Electrical Engineering for an array-fed parabolic reflector antenna.

(5) £21,182 for the Department of Mechanical Engineering for the development of simple mathematical models of bird impact and containment.

(6) £15,922 for the Department of Mechanical Engineering for 'Eddy Current NDE'.

(7) £12,410 for the Department of Mechanical Engineering for the detection of corrosion in aircraft.

(8) £8,995 for the Department of Photogrammetry & Surveying for 'Spot DFAD Study'.

(9) £27,844 for the Department of Psychology for the study of the behavioural consequences of exposure to high pressure oxygen.

(10) £79,353 for the Department of Phonetics & Linguistics for the acoustic modelling of phonetic segments.

F. H. MUIRHEAD

£4,125 for the Department of Histopathology for use at the discretion of the Department.

MUSCULAR DYSTROPHY GROUP OF GREAT BRITAIN

(1) £20,164 for the Department of Anatomy & Developmental Biology for the study of the mechanisms involved in the control of gene expression of developing vertebral skeletal muscle fibres.

(2) £16,500 for the Department of Anatomy & Developmental Biology for the study of the changes of motoneurone properties during development.

(3) £11,500 for the Department of Anatomy & Developmental Biology for the study of the mechanism controlling the survival of developing motoneurones.

NATIONAL FUND FOR RESEARCH INTO CRIPPLING DISEASES

(1) £77,954 for the Department of Anatomy & Developmental Biology for the investigation of cell development in the PNS.

(2) £8,532 for the Department of Anatomy & Developmental Biology for the investigation of regenerative growth of mammalian CNS axons into PNS and CNS grafts.

(3) £12,819 for the Department of Mechanical Engineering for the development of modular othoses for paediatric rehabilitation.

(4) £321 for the Department of Mechanical Engineering for the Shapeable Matrix Project.

(5) £5,000 for the Department of Physiology for the investigation of abnormal growth by Cerebellar Purkinje cells.

THE NATIONAL TRUST

£3,633 for the Institute of Archaeology for the Winchelsea, Blackfriars Barn Excavation.

NATURAL ENVIRONMENT RESEARCH COUNCIL

(1) £79,637 for the Department of Biology for the study of the effects of elevated inputs of nitrogen on the uptake metabolism retention and allocation of nitrogen in tree crops.

(2) £1,928 for the Department of Biology for the study of the genetic variation and reproductive success in red deer.

(3) £1,098 for the Department of Biology for the study of the role of protective solutes in high temperature.

(4) £47,771 for the Department of Genetics & Biometry for the study of fitness and population density across a hybrid zone.

(5) £56,972 for the Department of Geography for the study of the geomorphological dynamics of fundamental desert sand dune types.

(6) £125,217 for the Department of Geological Sciences for Thermotectone modelling by Fission Track analysis.

(7) £75,580 for the Department of Geological Sciences for the study of elastic and anelastic properties of stressed rock.

(8) £55,142 for the Department of Geological Sciences for the integration of late cretacous nanno and macr fossil biostratigraphic schemes.

(9) £42,568 for the Department of Geological Sciences for the study of ice mechanical properties: triaxial tests as a function of temperature.

(10) £6,167 for the Department of Geological Sciences for the study of the mechanisms of inelastic rock fractured at ambient and elevated pressure.

(11) £4,850 for the Department of Geological Sciences for the study of lattice dynamics and thermodynamic properties of mantle forming minerals.

(12) £21,000 for the Department of Mathematics for the study of Bathymetric and boundary effects on the wind-stress/driven Antartic circumpolar current.

(13) £19,563 for the Department of Photogrammetry & Surveying for the study of shape instability and magna transport at Mt Etna by means of ground deformation measurements.

(14) £6,288 for the Department of Photogrammetry & Surveying for the application of data from the spot satellite.

(15) £4,027 for the Department of Physics & Astronomy for the measurement of topographic height and characteristics of land surfaces by satellite radar altimetry.

FRANCES AND AUGUSTUS NEWMAN FOUNDATION

£30,000 for the Department of Surgery for use at the discretion of the Department.

NORDISK GENTOFF AIS

£23,817 for the Department of Medicine for the study of growth hormone in the prevention of steroid-induced muscle and bone wasting in Polymyalagia Rheumatica.

NORTH ATLANTIC TREATY ORGANISATION

(1) BF 272,000 for the Department of Chemistry for the study of the aggregation of transitular metal clusters.

(2) £14,829 for the Department of Photogrammetry & Surveying for the monitoring of slope stability and magna transport on Etna volcano.

(3) £3,285 for the Department of Physics & Astronomy for the study of the volcanic geology of Koccamonfina and Vulturi Volcanoes: Southern Italy.

NORTH EAST THAMES REGIONAL HEALTH AUTHORITY

(1) £12,755 for the Department of Clinical Oncology for overcoming the resistance of human tumours to alkylating agents.

(2) £14,762 for the Department of Haematology for the study of the effects of chemotherapy-induced aphasia.

(3) £6,976 for the Department of Histopathology for the quantification of neurendocrine and ganglion cells in lamia propria.

(4) £14,868 for the Department of Immunology for the study of the role of retroviral particles in Type 1 Diabetes.

(5) £14,707 for the Department of Medicine for the study of hydoxyandrostenedione as a normal and abnormal function of the adrenal cortex and ovaries.

(6) £14,868 for the Department of Molecular Endocrinology for the study of the effects of maternal hypothyoxinemia on CNS of the adult progeny.

THE NUFFIELD FOUNDATION

(1) £3,000 for the Department of Anatomy & Developmental Biology for the study of sex steroids and bone.

(2) £824 for the Department of Anatomy & Developmental Biology for the study of the research gap function in mouse zygotes.

(3) £800 for the Department of Anatomy & Developmental Biology for research on amino acid containing neurons in the rat visual cortex.

(4) £501 for the Department of Anatomy & Developmental Biology for the study of the development of sensory thresholds and pain mechanisms in new born infants.

(5) £19,257 for the Department of Anthropology for the study of the anthropology of medicine in Northern Nigeria with special reference to Magusawa non-Muslim Hausa and their culture.

(6) £3,000 for the Department of Anthropology for the study of the anthropology of mass consumption in Fiji.

(7) £1,830 for the Department of Anthropology for the study of retailing, commodities and consumption in Bamenda, Cameroon.

(8) £2,410 for the Department of Community Medicine for the study of blood pressure levels and urinary electrolyte excretion during normal menstrual cycle.

(9) £500 for the Department of Electronic & Electrical Engineering for research on laser processing of thin films.

(10) £2,482 for the Department of Experimental Pathology for the study of the role of the cytoskeleton in the control of secretion.

(11) £1,320 for the Department of Genetics & Biometry for research on variation in fitness across a hybrid zone.

(12) £1,000 for the Department of Genetics & Biometry for research on new approaches to thermal ecology and genetics.

(13) £1,000 for the Department of Hebrew & Jewish Studies for the study of the social function of mystical ideals in Judaism: Hasidism reappraised.

(14) £12,921 for the Department of Medicine for the comparison of cellular infiltrates in experimental muscle damage.

(15) £3,616 for the Department of Physics & Astronomy for 'Teaching Methods in Observational Astronomy'.

(16) £1,848 for the Department of Physiology for research regulation of lachrimal gland secretion by polyphosphoinositide second messengers.

(17) £1,545 for the Department of Physiology for the study of the protection of proteins from de-naturing effects of urea.

(18) £975 for the Department of Physiology for the study of control proteins and calcium control signals during the early cell cycles of sea urchin eggs.

(19) £761 for the Department of Physiology for research on intracellular calcium and control of the nuclear cycle in sea urchin embryos.

(20) £2,100 for the Department of Psychology for the psychological analysis of the Protestant Work Ethic.

(21) £585 for the Department of Psychology for 'Speech repair in organisation of talk and interaction'.

(22) £3,800 for the Department of Surgery for the development of a new fibre optical device for medical applications of lasers.

ORDNANCE SURVEY

(1) £12,603 for the Department of Photogrammetry & Surveying to provide the Ordnance Survey with a navigation database consultancy.

(2) £11,480 for the Department of Photogrammetry & Surveying for a survey to assess applications of spot data on UK mapping.

OVERSEAS DEVELOPMENT ADMINISTRATION

(1) £80,651 for the Department of Anthropology for the study of forest management strategies in Sierra Leone.

(2) £20,177 for the Department of Biology for the investigation of groundnut phytoalexin production and its effects on aflatoxin formation.

(3) £17,151 for the Department of Biology for the study of the resistance of cow pea to striga gesneriodes.

(4) £381 for the Department of Biology for the study of the production of mycotoxins of fungi which colonize sorghum.

QUEST FOR A TEST FOR CANCER

(1) £15,458 for the Department of Genetics & Biometry for the detection of those in the population who are most likely to develop cancer.

(2) £95,000 for the Department of Obstetrics & Gynaecology for use at the discretion of the Department.

RESEARCH CORPORATION TRUST

(1) £5,000 for the Department of Anatomy & Developmental Biology for the study of the regulation of lone resorbing activity in vitro by freshly disaggregated osteoclasts.

(2) £4,000 for the Department of Chemistry for the study of intramolecular interactions in the solid state.

(3) £2,000 for the Department of Physics & Astronomy for the study of the calculated bound and dissociative spectra of H_3 and its isotopemers.

REUTERS LTD

£90,000 for the Department of Computer Science for the Reuters Communications load sharing model.

RICHARD FOX NATIONAL DEAF-BLIND HELPERS' LEAGUE

£10,000 for the Department of Electronic & Electrical Engineering for a project on communication aids for deaf-blind.

ROMNEY MARSH SURVEY

£1,790 for the Institute of Archaeology for the Romney Marsh Survey.

ROYAL INSTITUTE OF BRITISH ARCHITECTS

£4,995 for the Bartlett School of Architecture & Planning for use at the discretion of the School.

ROYAL OBSERVATORY

£4,837 for the Department of Physics & Astronomy for the provision of Vax software to control the cooled-grating spectrometer constructed at UCL.

ROYAL SOCIETY

(1) £18,121 for the Department of Anatomy & Developmental Biology for a Foulerton Research Fellowship.

(2) £2,500 and £1,100 for the Department of Biology for a Fellowship from the Cyclo Sperm Fund.

(3) £16,021 for the Department of Electronic & Electrical Engineering for a Fellowship.

(4) £41,000 for the Department of Geography for Paleolimnological studies.

(5) £6,500 and £5,000 for the Department of Geography towards the Surface Water Acidification Programme for a diatom data base.

(6) £59,806 for the Department of Physics & Astronomy for a Fellowship.

(7) £61,708 for the Department of Physiology for a Henry Head Research Fellowship.

ROYAL SOCIETY FOR THE PROTECTION OF BIRDS

£1,864 for the Department of Geography for the study of the hydrology, conservation and human use of the Ladezia flood plane in Nigeria.

RUTHERFORD APPLETON LABORATORY

(1) £100,000 for the Department of Computer Science for Network communications with U.S.A.

(2) £40,015 for the Department of Physics & Astronomy for the Starlink computer system.

SANDOZ

(2) £64,981 for the Department of Anatomy & Developmental Biology for use at the discretion of the Department.

(2) £6,222 and £1,300 for the Department of Pharmacology for use at the discretion of the Department.

SCHLUMBERGER ELECTRONICS (UK) LTD

£160,000 for the Department of Electronic & Electrical Engineering for a Solartron Lectureship.

SCIENCE AND ENGINEERING RESEARCH COUNCIL

(1) £39,510 for the Department of Anatomy & Developmental Biology for the study of circadian rhythms in hard tissues.

(2) £35,620 for the Department of Anatomy & Developmental Biology for the study of purnioceptors in invertebrates.

(3) £26,424 for the Bartlett School of Architecture & Planning for the application of space syntax to work environments.

(4) £9,010 for the Department of Biology for the application of electron spin echo spectrometry to kinetic studies.

(5) £1,967,528 for the Department of Chemical & Biochemical Engineering for integrated studies in Biochemical Engineering.

(6) £359,876 for the Department of Chemical & Biochemical Engineering for a Biochemical Engineering study to improve the separation of biological material, especially proteins.

(7) £102,000 for the Department of Chemical & Biochemical Engineering for the design, development and testing of a novel turbulent transport catalytic reactor.

(8) £28,550 for the Department of Chemical & Biochemical Engineering for the disruption of filamentous micro-organisms in high pressure homogenisers.

(9) £6,780 for the Department of Chemical & Biochemical Engineering for the study of the effects of phosphate concentration on streptomyces griseus morphology.

(10) £3,890 for the Department of Chemical & Biochemical Engineering for Biocatalysis involving poorly-soluble organic compounds.

(11) £45,260 for the Department of Chemistry for the study of linear-chain semiconductors based upon pep and related ligands, their syntheses, spectroscopy and structures.

(12) £32,010 for the Department of Chemistry for the study of the interaction of Lewis acids with organic free radicals.

(13) An unspecified sum for the Department of Civil & Municipal Engineering for lectures in the area of structural mechanics.

(14) £52,693 for the Department of Civil & Municipal Engineering (Transport Studies Group) for traffic surveillance and image processing.

(15) £47,730 for the Department of Civil & Municipal Engineering for the study of random vibration of MDOF structures due to non-Gaussian wave loading.

(16) £15,022 for the Department of Civil & Municipal Engineering (Transport Studies Group) for the estimate of trip matrices and mode choice models integrating flow and formation and other data types.

(17) £97,602 for the Department of Computer Science for the locator subproject of the mobile information systems demonstrator.

(18) £1,500 for the Department of Computer Science for the preparation of the proposal for the Esprit II Programme.

(19) £70,908 for the Department of Electronic & Electrical Engineering for the study of non-linear optical properties of semi-conductor quantum well and super lattices.

(20) £29,474 for the Department of Electronic & Electrical Engineering for the electronic tuning of semi-conductor lasers using multi-quantum well devices.

(21) £28,742 for the Department of Electronic & Electrical Engineering for the development of a design method for very narrow band switched capacity hardness filters.

(22) £27,396 for the Department of Electronic & Electrical Engineering for research on laser processing of thin films.

(23) £11,157 for the Department of Electronic & Electrical Engineering for the study of CAD capability for GAAS analogue and digital circuits.

(24) £90,551 for the Ergonomics Unit (Psychology Department) for the development of techniques for easy evaluation of interface designs.

(25) £1,250 for the Department of Genetics & Biometry for 'A genetic analysis of the hybrid zone in Bombina'.

(26) £37,170 for the Institute of Archaeology for a statistical analysis of ceramic assemblages.

(27) £39,200 for the Department of Mathematics for the study of unsteady euler flows and viscous effects — nonlinear systems.

(28) £37,360 for the Department of Mathematics for the study of viscous-inviscous hypersonic internal flow.

(29) £6,290 for the Department of Mathematics for the study of geographically localised long period oscillations — topographic waves in bays.

(30) £210,660 for the Department of Mechanical Engineering for 'Floating Productions Systems 1987/89: Projects in Marine Technology Programme'.

(31) £162,885 for the Department of Mechanical Engineering for 'Fatigue Crack Growth in Offshore Structures, 1987/89: Projects in Marine Technology Programme'.

(32) £58,340 for the Department of Mechanical Engineering for 'Structural Integrity Monitoring, 1987/89: Projects in Marine Technology Programme'.

(33) £55,480 for the Department of Mechanical Engineering for the finite element analysis of flexible pipes, cables and connections.

(34) £47,500 for the Department of Medical Physics for the development of image reconstruction algorithms.

(35) £36,010 for the Department of Phonetics & Linguistics for 'Speech input/output: and implementation for Chinese'.

(36) £833,700 and £66,207 for the Department of Physics & Astronomy for 'Geophysical and Astronomical Research in Space'.

(37) £799,888 for the Department of Physics & Astronomy for 'Atmospheric Research 1988/91'.

(38) £753,697 for the Department of Physics & Astronomy for 'Experimental High Energy Physics, 1987/91'.

(39) £307,360 for the Department of Physics & Astronomy for 'Optical Infrared and Ultraviolet Astronomy, 1988/92'.

(40) £103,956 for the Department of Physics & Astronomy to study stellar wind variability in WR stars etc.

(41) £32,050 for the Department of Physics & Astronomy for 'Intermediate Energy Physics'.

(42) £29,104 for the Department of Physics & Astronomy for the calculation of stellar envelope opacities.

(43) £23,387 for the Department of Physics & Astronomy for the investigation of the ultra-violet spectra of quasars.

(44) £8,682 for the Department of Physics & Astronomy for the production of antimatter as antihydrogen.

(45) £4,051 for the Department of Physics & Astronomy for 'Optical speckle and spectroscopic observations of Megallanic cloud planetary nebulae'.

(46) £3,587 for the Department of Physics & Astronomy for 'Observations at WHT: an investigation of accretion disks in A.G.N.'.

(47) £3,469 and £2,022 for the Department of Physics & Astronomy for observations on the AAT.

(48) £3,385 and £1,637 for the Department of Physics & Astronomy for observations on UKIRT.

(49) £2,463 and £2,138 for the Department of Physics & Astronomy for the study of photometric variability in galactic X-ray binaries.

(50) £2,000 for the Department of Physics & Astronomy for the study of the interactions of hadrons, nuclei and snarks.

(51) £1,902 for the Department of Physics & Astronomy for the study of the variability of quasar emission lines.

(52) £1,715 for the Department of Physics & Astronomy for 'OBS at TTM: imaging and doppler imaging of Comet Bradfield'.

(53) £1,552 for the Department of Physics & Astronomy for submillimetre observations of planetary nebulae and compact regions.

(54) £1,363 for the Department of Physics & Astronomy for observations on Mt Stromlo: observations on interstellar CH+.

(55) £1,315 for the Department of Physics & Astronomy for high resolution spectroscopy at the Dominion Astro Observatory.

(56) £1,295 for the Department of Physics & Astronomy for observations on the Hawaii IRTF: radio observations of flares in Cygnus.

(57) £1,069 for the Department of Physics & Astronomy for observations at SAAO: a photometric study.

(58) £900 for the Department of Physics & Astronomy for the production of computer control software.

(59) £672 for the Department of Physics & Astronomy for observations of the halos of planetary nebulae.

(60) £547 for the Department of Physics & Astronomy for optical identification of serendipitous exosat sources in the field.

(61) £53,139 for the Department of Physiology for 'Knowledge elicitation methodology for research associations'.

(62) £4,993 for the Department of Physiology for the study of sperm egg fusion which leads to the activation of the egg at fertilisation in sea urchin.

(63) £55,410 for the Department of Statistical Science for the probabilistic modelling for export systems.

(64) £11,199 for the Department of Statistical Science for the mathematical modelling and statistical estimation in the analysis of DNA sequence.

SIR HALLEY STEWART TRUST

£8,922 for the Department of Obstetrics & Gynaecology for use at the discretion of the Department.

SIR JULES THORN CHARITABLE TRUST

£46,058 for the Department of Obstetrics & Gynaecology for 'Coloscopy and Cytology — a Cost Benefit Evaluation'.

THE SKIN DISEASE RESEARCH FUND

£19,086 for the Department of Surgery for the study of the production of inflammatory mediators by human microvascular endothelial cells.

ST PETER'S RESEARCH FUND

£13,392 for the Institute of Urology for studies on the treatment of renal failure.

SIR JULES HURD

£17,594 for the Department of Biochemistry for the evaluation of Androstanediol Glucrondo Assay.

STAFFORD MILLS

£49,729 for the Dental School for a research study into retention forces of dental prosethesis.

SWEDISH BUILDING RESEARCH COUNCIL

£4,000 for a report on an IRC-CIR seminar held at ORSA, May 1987.

TOBACCO PRODUCTS RESEARCH TRUST

£129,964 for the Department of Histopathology for the study of cigarette smoke related vascular damage in comparing different smoking materials.

UNITED KINGDOM ATOMIC ENERGY AUTHORITY

(1) £9,950 for the Department of Computer Science for the provision of an interim X-400 service.

(2) £4,000 for the Department of Electronic & Electrical Engineering for a T-sat self-steering antenna study.

UNITED STATES AIR FORCE

£16,000 for the Department of Physics & Astronomy for the study of injection and decay processes in the low energy plasma population of the earth's radiation.

UNITED STATES PUBLIC HEALTH SERVICE

(1) $70,530 for the Department of Anatomy & Developmental Biology for the study of the cerebellum and conditioning.

(2) $46,904 and $4,231 for the Department of Anatomy & Developmental Biology for the study of muscle ultrastructure in trachea and bronchi lung vessels.

(3) $68,467 for the Department of Community Medicine for the study of social and occupational influences on health and illness.

(4) $3,000 for the Department of Pharmacology for use at the discretion of the Department.

UNIVERSITY COLLEGE HOSPITAL SPECIAL TRUSTEES

(1) £16,453 for the Department of Anatomy & Developmental Biology for an experimental study of microstructure factors relating to success of restoration of tooth interface.

(2) £13,500 for the Department of Surgery for the D48 Cochlear Implant Programme.

(3) £43,721 for the Department of Haematology for the study of the use of monoclonal antibodies for first trimester diagnosis of thalassaemia major.

(4) £18,000 for the Department of Obstetrics & Gynaecology for the evaluation of hormonal changes preceding the onset of term and pre-term labour.

VARIOUS INDEPENDENT SPONSORS

£25,000 for the Department of Mechanical Engineering for the study of floating production systems.

WELCOME TRUST

(1) £368,032 and £12,509 for the Department of Anatomy & Developmental Biology for the study of the organisation of the visual cortex in the macaque monkey.

(2) £95,613 and £2,500 for the Department of Anatomy & Developmental Biology for research into stimulus/receptor relations in the spinal cord.

(3) £70,381 for the Department of Anatomy & Developmental Biology for the study of the plasticity and control of cellular phenotype in the Enteric Nervous System.

(4) £56,417 for the Department of Anatomy & Developmental Biology (History of Medicine) for the study of forensic medicine in France, 1750-1850.

(5) £54,265 for the Department of Anatomy & Developmental Biology for the study of dental tissue structure in mammals including man.

(6) £40,048 for the Department of Anatomy & Developmental Biology for use at the discretion of the Department.

(7) £34,071 for the Department of Anatomy & Developmental Biology (History of Medicine) for the study of the medical care of the newborn 1920-60.

(8) £22,379 for the Department of Anatomy & Developmental Biology (History of Medicine) for the study of diagnostic practice in Britain in the late 18th and early 19th centuries.

(9) £11,717 for the Department of Anatomy & Developmental Biology for the study of the development of cholinergic projection to the rat visual cortex.

(10) £7,766 for the Department of Anatomy & Developmental Biology (History of Medicine) to study the mediaeval writings of Rufus of Ephesus.

(11) £6,463 for the Department of Anatomy & Developmental Biology for use at the discretion of the Department.

(12) £6,252 for the Department of Anatomy & Developmental Biology (History of Medicine) for the study of the founding and functions of the voluntary hospitals in 18th century England.

(13) Two supplementary amounts for the Department of Anatomy & Developmental Biology for the study of the role of direct cell to cell communication during development.

(14) £95,979 for the Department of Biochemistry for the study of transcription factors regulating developmental switching: the activation of red cell marker gene.

(15) £34,243 for the Department of Biochemistry for the study of sty rapid receptor mediated control of mitochondria by triiodothyronin.

(16) £665 for the Department of Biochemistry to study body metabolism of tryptophan in vitamin B6 deficiency.

(17) £2,606 for the Department of Biology for the study of expression of receptors for GGRP by vertebrate muscle.

(18) £324,426 and £3,565 for the Departments of Chemistry and Pharmacology jointly for the investigation into the synthesis and mechanisms of action of novel compounds acting at potassium channels.

(19) £4,840 for the Department of Clinical Pathology for the study of cell stimulation.

(20) £63,822 for the Department of Community Medicine for a study of the biological factors mediating the effects of stress on health.

(21) £72,020 for the Department of Experimental Pathology for an investigation into a search for proteins involved in exocytosis.

(22) £2,680 for the Department of Experimental Pathology for the investigation of stimulus-secretion coupling.

(23) £2,402 and £924 for the Department of Experimental Pathology for the study of the roles of GTP in stimulus-coupling secretion.

(24) £57,923 for the Department of Genetics & Biometry for the study of T.B.; towards cloning by reverse genetics.

(25) £12,845 and £1,960 for the Department of Genetics & Biometry for the study of the effects of oogenesis of factors which impair spermatogenesis.

(26) £2,000 for the Department of Genetics & Biometry for the study of tuberous sclerosis.

(27) £665 for the Department of Genetics & Biometry for the mapping of genes on chromosome 5.

(28) £634 for the Department of Genetics & Biometry 'To make a short walk on a human Y chromosome'.

(29) £48,250 for the Department of Haematology for the study of immune peconstructure following autologous bone marrow transplantation.

(30) £33,950 for the Department of Haematology for the study of chemical and pathophysiological features of Lassa virus infection.

(31) £665 for the Institute of Immunology to study tumour necrosis factors.

(32) £32,734 for the Department of Medical Physics for the investigation of non-invasive physiological monitoring using near infra-red transillumination.

(33) £350,000 for the Department of Medicine for 'The Biochemistry and Cell and Molecular Biology of the Microbicidal Oxidase Electron Transport Chain of Phagocytic Cells in Health and Disease'.

(34) £155,451 for the Department of Medicine to study Band 7 proteins.

(35) £96,377 for the Department of Medicine for the study of Band 7 proteins and ion transport in hereditary stomatocytosis.

(36) £3,373 for the Department of Medicine for the investigation of the aetiology and pathogenesis of infections in the neonatal period.

(37) £84,338 for the Department of Paediatrics to study the control of liquid movement across the pulmonary epithelium during development from fetal to adult life.

(38) £75,000 for the Department of Pharmacology for the study of dendrotoxin-sensitive k-channels in mammalian neurones.

(39) £73,491 for the Department of Pharmacology for the study of opioid and non-opioid peptide interactions in nociception and analgesia.

(40) £6,377 for the Department of Pharmacology for the study of large glutamate-receptor ion channels in cerebellar granule neurones.

(41) £3,565 for the Department of Pharmacology for the investigation of the synthesis and mechanism of action of novel compounds.

(42) £499 for the Department of Pharmacology to study the G blockage of volume-activated potassium channels on the heart.

(43) £32 for the Department of Pharmacology to study central neurons.

(44) £665 for the Department of Phonetics & Linguistics to develop speech coding schemes for cochlear implants and signal-processing hearing aids.

(45) £82,273 for the Department of Physiology to investigate whether calcium and phosphoinositide second messengers trigger development in mammalian eggs.

(46) £63,000 for the Department of Physiology for the study of the interaction between neuronal membrane conductors and cell metabolism.

(47) £31,000 for the Department of Physiology for the study of the control of cell division cycle by cytoplasm messengers.

(48) £5,200 and £2,000 for the Department of Physiology for the study of the regulation of intracellular concentration in cardiac muscle.

(49) £555 for the Department of Physiology to study the antagonists to cholera and E-coli toxins.

(50) £23,028 for the Department of Physiology for the investigation of postsynaptic control of the induction and maintenance by potentiation at neocortical neurones in rat brain.

(51) £17,068 for the Department of Physiology for the study of localised calcium changes within cells.

(52) £12,719 for the Department of Physiology to investigate whether intranuclear calcium controls transpherion of the prolactin gene.

(53) £6,741 for the Department of Physiology for the study of inhibitory amino acid receptors of the mouse spinal cord.

(54) £6,035 for the Department of Physiology for the study of the electrical properties of Retinal Muller Cells.

(55) £13,786 for the Department of Primary Health Care for a control study of plasma aluminium and zinc and the susceptibility to membrane peroxidation in patients with dementia.

(56) £665 for the Department of Psychology for the study of conditional immunosuppression.

(57) £7,238 for the Department of Psychiatry for the molecular genetic investigation of psychiatric disorder.

(58) £55,375 for the Department of Surgery for research into monoclonal antibodies in colorectal cancer.

(59) £91 for the Department of Surgery for a study of photodynamic therapy for gastrointestinal cancer.

(60) £55,488 for the Department of Urology to study the development of a fast respiratory mass spectrometer for application to problems of the human new-born.

(61) £19,775 for the Department of Biology for the study of cell diversification in the rat retina.

WEST ESSEX HEALTH AUTHORITY

£26,506 for the Department of Psychiatry.

WEST SUSSEX COUNTY COUNCIL

(1) £10,000 for the Institute of Archaeology for the Steyning Excavation.

(2) £1,500 for the Institute of Archaeology for the Excavation at Blackwater Green, Crawley.

WILD FOWL TRUST

£1,950 for the Department of Geography for participation in a wet land management course, Ghana.

THE WORLD BANK

$133,000 and $105,000 for the Department of Economics for the study of growth and poverty in developing countries.

WORLD HEALTH ORGANISATION

US $133,500 for the Department of Community Medicine for 'Data Processing and Coordination of Multicentre Case-Control of Cardiovascular Disease and Steroid Hormone Contraceptive Use'.

DIRECTLY FUNDED RESEARCH UNITS

(figures indicate annual expenditure in 1987-88)

	£
Department of Anatomy and Developmental Biology	
MRC Neural Mechanisms of Behaviour Research Unit	14,692
Department of Genetics and Biometry	
MCR Human Biochemical Genetics Research Unit	600,867
Department of Psychology	
MRC Cognitive Development Research Unit	381,673
Department of Mechanical Engineering	
Royal Corps of Naval Constructors	105,888
Department of Zoology and Comparative Anatomy	
Imperial Cancer Research Fund Tumour Immunology Unit	977,018

APPENDIX VII

COLLEGE ACCOUNTS 1987-88

(Including The Middlesex Hospital Medical School and the Postgraduate Institutes of Laryngology & Otology, Orthopaedics and Urology.)

The Balance Sheet and Income and Expenditure Account for the year will be found on pages 368-371.

INCOME AND EXPENDITURE

EXPENDITURE for the year exceeded INCOME by £1,100,953. The net deficit carried forward on the Income and Expenditure Account was £6,122,037.

Income, including allocations from Reserves, exceeded that for 1986-87 by £10,126,823 including grants from the Court of the University which increased by £4,108,437, fees which increased by £1,074,816 and grants for research which increased by £4,372,617.

Expenditure was £11,373,815 more than in 1986-87. An additional £8,855,272 was spent on academic departments and services. Maintenance of premises increased by £113,014. An additional £249,540 was spent on administration and miscellaneous expenditure increased by £2,155,989.

Income and expenditure under the main classifications in 1987-88 as compared with 1986-87 and 1982-83 are shown in the following table.

	1982-83		1986-87		1987-88	
	£	%	£	%	£	%
EXPENDITURE						
Salaries and Pensions of Teaching Staff	19,422,882	32.0	24,175,082	28.5	27,501,234	28.6
Departmental Expenses including Library	14,071,311	23.2	19,075,211	22.5	21,075,505	22.0
Research Grants	13,470,265	22.2	22,720,556	26.8	26,249,382	27.3
Maintenance of Premises	8,772,930	14.5	11,094,994	13.1	11,208,008	11.6
Administration	3,025,804	5.0	4,821,649	5.7	5,071,189	5.3
Other	1,863,993	3.1	2,851,020	3.4	5,007,009	5.2
	£60,627,185	100.0	£84,738,512	100.0	£96,112,327	100.0
INCOME						
Endowments	352,832	0.6	728,920	0.9	797,251	0.8
Grants	33,386,240	55.7	41,431,945	48.8	45,540,382	47.9
Donations	447,801	0.8	237,556	0.3	103,203	0.1
Fees	6,092,995	10.2	9,392,761	11.1	10,467,577	11.0
Grants for Research	13,478,478	22.4	23,432,281	27.6	27,804,898	29.3
Research Training Support Grant	69,660	0.1	97,733	0.1	97,610	0.1
Other	5,946,199	9.9	7,187,335	8.4	9,070,592	9.6
Transfer From General/Specific Reserves	151,836	0.3	2,376,020	2.8	1,129,861	1.2
	£59,926,041	100.0	£84,884,551	100.0	£95,011,374	100.0

EXTRA-BUDGETARY ACTIVITIES

The College administers the finances of many research projects supported from outside sources. 1,476 were being pursued actively at 31 July 1988. Income increased from £23,432,281 in 1986-87 to £27,804,898 in 1987-88.

UNIVERSITY COLLEGE LONDON
BALANCE SHEET AS AT 31 JULY 1988

1987 £		1988 £	£
	FIXED ASSETS		
33,168,569	Land and Buildings		34,484,102
4,893,636	Investments		3,859,949
38,062,205			38,344,051
	CURRENT ASSETS		
365,423	Stores	266,415	
12,942,774	Expenditure Recoverable from Grants	14,682,024	
5,867,580	Debtors and Prepayments	8,695,680	
6,347,626	Short-Term Cash Deposits	7,997,466	
25,523,403		31,641,585	
	CURRENT LIABILITIES		
7,728,011	Creditors and Accruals	10,512,577	
785,831	Overdraft at Bank	2,046,205	
8,513,842		12,558,782	
17,009,561	NET CURRENT ASSETS		19,082,803
55,071,766	NET ASSETS		57,426,854
9,650,552	TRUST FUNDS		10,381,835
£64,722,318			£67,808,689
	REPRESENTED BY		
33,168,569	Capital Reserve		34,484,102
(4,067,643)	Other Reserves		(5,054,975)
6,757,350	Provisions		7,039,864
677,232	Balances on Revenue Grants		1,031,231
18,536,258	Earmarked Funds		19,926,632
55,071,766			57,426,854
9,650,552	TOTAL FUNDS		10,381,835
£64,722,318			£67,808,689

INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED 31 JULY 1988

1986-87 £		1987-88 £	£
	INCOME		
41,431,945	Grants from University Court		45,540,382
9,392,761	Fees		10,467,577
728,920	Endowments		797,251
237,556	Donations		103,203
23,432,281	Grants for Research		27,804,898
97,733	Research Council Training Support Grants		97,610
6,087,764	Contributions for Services Rendered		7,754,795
155,880	Rents Receivable		142,500
48,620	Appropriation from Special Funds		55,934
466,272	Interest Receivable		437,106
428,799	Miscellaneous		680,257
£82,508,531			£93,881,513
	EXPENDITURE		
4,674,386	Administration	4,911,126	
61,800,924	Academic Departments	70,034,069	
3,784,359	Academic Services	3,732,433	
10,634,699	Maintenance of Premises	11,217,203	
673,625	General Education Expenditure	746,214	
776,728	Student Facilities and Amenities	835,769	
1,856,885	Miscellaneous	1,725,143	
592,492	Capital Expenditure met from Income	2,453,254	
(346,036)	Increase/(Decrease) in Salary Provision	25,367	
290,450	Increase/(Decrease) in Committed Balance	353,999	
	Transfer to Equipment and Furniture	77,750	
£84,738,512			96,112,327

1986-87 £		1987-8 £	£
(2,229,981)	DEFICIT FOR THE YEAR *(brought forward)*		(2,230,814)
	TRANSFER (TO)/FROM SPECIFIC RESERVES:		
1,983,834	Long-Term Maintenance	1,025,680	
359,684	Restructuring	(140,954)	
(1,292)	Earmarked Funds	—	
684	Miscellaneous	(20,893)	
2,342,910		863,833	
	TRANSFER (TO)/FROM GENERAL RESERVES		
33,110	College Fund	266,028	
2,376,020	NET TRANSFERS (TO)/FROM RESERVES		1,129,861
146,039	SURPLUS/(DEFICIT) AFTER TRANSFERS FROM RESERVES		(1,100,953)
(5,167,123)	ACCUMULATED DEFICIT AT 1 AUGUST 1987		(5,021,084)
£(5,021,084)	ACCUMULATED DEFICIT AT 31 JULY 1988		£(6,122,037)